

 **KYK~ HIGEN**



**KYK HI, HYDROGEN**  
**KYK 김영귀 “킵~ 하이젠”**



Kim Young Kwi, the CEO of KYK R&D Center

## Kim Young Kwi's 37 years of research on water science to promote the health of mankind!

Instead of merely imparting his knowledge in his area of expertise, Kim Young Kwi has been following his calling And realizing his commendable core values based on a unique impetus and personal philosophy.

As a Korean scientist, he has carried out research for the past 37 years, which resulted in multiple patented technologies, extensive field experiences, impressive business management competency, in addition to being armed with specialized knowledge in this particular academic discipline.

The licensed R&D center, GMP-certified manufacturing site, multiple hit products, IRB-approved clinical trials at SNU Hospital, hundreds of thousands of actual users at home and abroad,

a wide variety of certifications and approval certificates, the National Invention Iron Tower Order of Industrial Service Merit, Top 33 Most Influential People Today Vice Minister of Science and Technology Prize, Minister of Health and Welfare Prize among countless other awards,

11 gold medals from international invention fairs, member of Korea Premium Brand CEO Forum, countless appearances on the media, and loyal buyers and customers in some 50 countries around the world are some of the proud achievements of KYK.



Chosen as one of the Top 30 Global Leaders of Korea for four consecutive years



Multiple appearances on TV as a water expert



KYK with foreign buyers



Dr. Kim Young Kwi, who spent 37 years on water science research

A clinical trial with water? Really?

# Positive clinical result of **“85.7%”** that astounded researchers of SNU Hospital

- ✓ Completed the world's one and only clinical trial using water at the world-renowned SNU Hospital under the approval of the Institutional Review Board (IRB)!
- ✓ Achieved a clinical result of “85.7%” with irritable bowel syndrome patients, who are known to be highly sensitive!
- ✓ Opened a new chapter in water science history through a clinical trial on the water produced by KYK[33000] rather than a drug!
- ✓ Gained public confidence with the approval from the municipal government on KYK's competitiveness and vision as well as financial assistance for the clinical trial!



**SNUH** SEOUL NATIONAL UNIVERSITY BUNDANG HOSPITAL & **KYK** Alkaline Ionized Water



A view of SEOUL NATIONAL UNIVERSITY BUNDANG HOSPITAL



With the clinical trial investigators from SEOUL NATIONAL UNIVERSITY BUNDANG HOSPITAL



Dr. Kim Young Kwi, giving a presentation on water science research



Providing medical treatment (Digestive system)

Wisdom that brings forth  
health, beauty and happiness



## Water is life

- Kim Young Kwi -

Water –  
is the source of life and is life itself.  
It flows and circulates in cycles by nature,  
and if it cannot flow and circulate, it will decompose  
or become toxic due to changes in its properties.  
These principles also apply to the water introduced into our bodies.

Water –  
makes up more than 83% of the blood.  
So it is essentially water that flows throughout the body.  
When blood (water) becomes acidic due to sugar, fat, waste and active oxygen,  
our immune system gets compromised, leaving us vulnerable to illnesses,  
and our circulation system will also be impaired.

This eventually leads to the malfunctioning of the DNA, and the breakdown of the organs.  
This explains the reason behind the growing prevalence of intractable diseases  
that arise spontaneously, without an actual transmission of a disease.

Water –  
is capable of bringing forth good health or even illness.  
One must understand that life begins from water,  
and so does health.  
It is not life that governs over water,  
but it is water that governs over life.

There are many places that sell health products  
(drugs and therapeutic agents, etc.),  
but none of them can be held responsible for your health.  
It is you, who must take responsibility for your own health,  
meaning that you must take action,  
knowing that it is only with prudence  
that you can maintain your health.



## A new material of everyone's dreams in the 21<sup>st</sup> century - hydrogen(H<sub>2</sub>, H<sup>+</sup>)

Hydrogen (H<sub>2</sub>, H<sup>+</sup>) is the smallest and the most prevalent material in the universe.

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.

A hydrogen car does not cause any air pollution, and even purifies the air pollutants produced by two large automobiles.

This beneficial and mystical material, which is invisible and cannot be touched, is found in large amounts of a unique type of water called hydrogen water.

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 as a new material in the healthcare industry, and around 400 papers have been published regarding hydrogen.

Kim, Young Kwi is delivering exceptional water science technology after conducting water science research for the past 37 years, with a sense of calling to promote the health of mankind based on a special impetus and his personal philosophy.



### Characteristics of Hydrogen



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

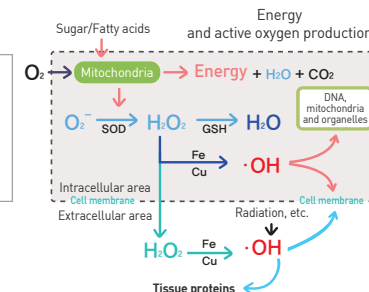
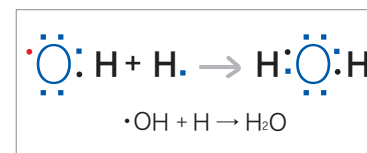


- Can pass through water- and fat-soluble barriers as it is highly permeable thanks to its small molecular weight



- Selectively eliminates radicals that are toxic to body cells

O : OH • , ONOO<sup>-</sup> , C<sub>18</sub>H<sub>31</sub>O<sub>4</sub> • 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 FoodAdditives 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.



Higen1 [ Standard type ]



## Higen1+ [ Premium type ]

### Notable strengths

- Compact size
- Simple yet refined design
- A special clearance membrane-type electrolytic cell system incorporating advanced technologies
- A filter chip and control system that detects the amount of use, usage period, use of a similar filter, and reuse of a filter to ensure safety and sanitation
- Innovative technology that produces hydrogen water containing up to 1,570ppb of dissolved hydrogen
- Hydrogen generation technology : A hydrogen water generation system (Models: Higen 1+ / Higen 1), incorporating the patented automatic channel switch technology to produce Mg-free and ozone-free water,



without requiring a water storage tank for the positive(+)

- No ozone or unpleasant odor
- Rich in minerals
- Automatic post-operation cleaning system
- Ceramic valves that do not malfunction
- Higen1+ (Premium Type): Dispenses 3 levels of hydrogen water (High, Mid and Low), purified water, and disinfected and sterilized water
- Higen1 (Standard Type): Dispenses 1 level of hydrogen water and purified water
- Innovative technology that produces water containing up to 1,570ppb of dissolved hydrogen

### Product specifications

|  |                                 |  |   |                                |  |
|--|---------------------------------|--|---|--------------------------------|--|
| <b>Product size</b>                        | 220(W) X 322(H) X 100(D)mm      | <b>Weight</b>  | 2.4kg   | <b>Water dispensing method</b> | Tankless system / Premium ceramic valves |
| <b>Water purification filter</b>           | 1 premium complex filter        | <b>Rated voltage</b>                                 | AC220V, 60Hz  | <b>Power consumption</b>       | 70W                                      |
| <b>Hydrogen content</b>                    | Max.: 1,570ppb, Avg.: 1,270 ppb | <b>Filter control</b>                                | A system with an embedded filter chip and main control board to control the usage amount and period |                                |  |
| <b>ORP</b>                                 | Max.: - 620mV, Avg.: - 410mV    | <b>Hydrogen generation technology</b>                | Patented technology for generating high-quality hydrogen Mg-free and ozone-free hydrogen water      |                                |  |
| <b>Electrical Safety Certification No.</b> | XH070308-17001A                 | <b>Electromagnetic wave Certification No. (MSIP)</b> | MSIP-REM-K72-kykhizen3plus  |                                |  |



Higen3 [ Standard type ]



## Higen3+ [ Premium type ]

### Notable strengths

- Premium aluminum hairline front panel
- Higen3+ (Premium Type): Dispenses weak hydrogen water, strong hydrogen water, purified water and disinfected and sterilized water
- Higen3 (Standard Type): Dispenses 1 level of hydrogen water and purified water
- New-concept high-performance ceramic valve system (Higen3+)
- A special clearance membrane-type electrolytic cell system incorporating advanced technologies
- Innovative technology that produces hydrogen water containing up to 1,570ppb of dissolved hydrogen
- No ozone or unpleasant odor
- Hydrogen generation technology: A high-quality



hydrogen water generation system incorporating patented automatic channel switch technology to produce Mg-free and ozone-free water, without requiring a water storage tank for the positive(+)

- Rich in minerals
- Audio message on/off function
- A filter chip and control system that detects the amount of use, usage period, use of a similar filter, and reuse of a filter to ensure safety and sanitation
- Automatic post-operation cleaning system
- 3 premium filters to ensure that the water tastes clean and pleasant

### Product specifications

|  |                                 |  |   |                                |  |
|--|---------------------------------|--|---|--------------------------------|--|
| <b>Product size</b>                        | 314(W) X 425(H) X 124(D)mm      | <b>Weight</b>  | 5.1kg   | <b>Water dispensing method</b> | Tankless system / Premium ceramic valves |
| <b>Water purification filter</b>           | 3 premium complex filters       | <b>Rated voltage</b>                                 | AC220V, 60Hz  | <b>Power consumption</b>       | 70W                                      |
| <b>Hydrogen content</b>                    | Max.: 1,570ppb, Avg.: 1,270 ppb | <b>Filter control</b>                                | A system with an embedded filter chip and main control board to control the usage amount and period |                                |  |
| <b>ORP</b>                                 | Max.: - 620mV, Avg.: - 410mV    | <b>Hydrogen generation technology</b>                | Patented technology for generating high-quality hydrogen Mg-free and ozone-free hydrogen water      |                                |  |
| <b>Electrical Safety Certification No.</b> | XH070308-17001A                 | <b>Electromagnetic wave Certification No. (MSIP)</b> | MSIP-REM-K72-kykhizen3plus  |                                |  |



**Higen2+** [ Premium type ]

**Notable strengths**

- A large LCD screen (7 colors)
- A system with an embedded filter chip that detects the amount of water dispensed per minute as well as the residual lifetime of filters and the reuse of filters to ensure safety and sanitation
- A special clearance membrane-type electrolytic cell system incorporating advanced technologies
- 2 filters to ensure that the water tastes clean and pleasant
- Innovative technology that produces hydrogen water containing up to 1,570ppb of dissolved hydrogen
- Hydrogen generation technology: A high-quality hydrogen water generation system



**Higen2** [ Standard type ]



**Higen K1**

- incorporating patented automatic channel switch technology to produce Mg-free and ozone-free water, without requiring a water storage tank for the positive(+)
- Automatic post-operation cleaning system
  - No ozone or unpleasant odor
  - Rich in minerals
  - One-touch operation system
  - Higen2+ (Premium Type): Dispenses 4 levels of hydrogen water, purified water, and disinfected and sterilized water
  - Higen2 (Standard Type): Dispenses 1 level of hydrogen water and purified water

**Product specifications**

|  |                                 |  |   |                                |                 |
|--|---------------------------------|--|---|--------------------------------|-----------------|
| <b>Product size</b>                        | 340(W) X 340(H) X 150(D)mm      | <b>Weight</b>  | 6kg   | <b>Water dispensing method</b> | Tankless system |
| <b>Water purification filter</b>           | 2 premium complex filters       | <b>Rated voltage</b>                                 | AC220V, 60Hz  | <b>Power consumption</b>       | 70W             |
| <b>Hydrogen content</b>                    | Max.: 1,570ppb, Avg.: 1,270 ppb | <b>Filter control</b>                                | A system with an embedded filter chip and main control board to control the usage amount and period |                                |                 |
| <b>ORP</b>                                 | Max.: - 620mV, Avg.: - 410mV    | <b>Hydrogen generation technology</b>                | Patented technology for generating high-quality hydrogen Mg-free and ozone-free hydrogen water      |                                |                 |
| <b>Electrical Safety Certification No.</b> | XH070308-17002A                 | <b>Electromagnetic wave Certification No. [MSIP]</b> | MSIP-REM-K72-kykhizen2plus  |                                |                 |



**Higen4+**

[ Instantaneous Hidden Auto Tap Cold and Hot Hydrogen Water generator ]

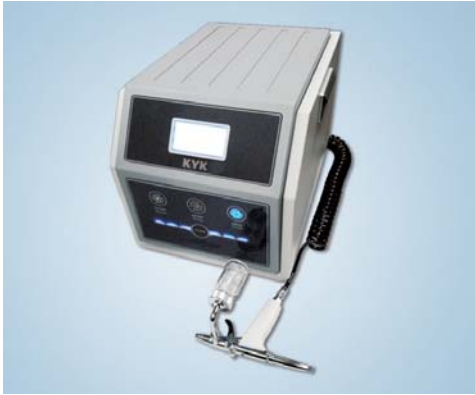
**Notable strengths**

- An instantaneous cold and hot hydrogen water dispenser that instantaneously cools and heats water
- A system that is directly connected to the water supply system, without the use of a cold or hot water tank
- Certified as Good Design by the Korea Institute of Design Promotion for its simple yet elegant design
- 4 filters to produce cold and hot hydrogen water that tastes clean and pleasant
- Dispenses hydrogen water once a cup is placed in position as the retracted water tap gets extended outward
- Hydrogen generation technology: A high-quality hydrogen water generation system incorporating patented automatic channel switch technology to produce Mg-free and ozone-free water, without requiring a water storage tank
- for the positive (+)
- A hidden auto water tap that prevents infiltration of fine particles
- Innovative technology that produces hydrogen water containing up to 1,570ppb of dissolved hydrogen
- A special clearance membrane-type electrolytic cell system incorporating advanced technologies
- No ozone or unpleasant odor, and rich in minerals
- Audio message on/off function
- A filter chip and control system that detects the amount of use, usage period, use of a similar filter, and reuse of a filter to ensure safety and sanitation
- Higen4+ (Premium Type): Dispenses cold hydrogen water, hot hydrogen water, strong hydrogen water, weak hydrogen water, purified water and disinfected and sterilized water

**Product specifications**

|  |                                 |  |   |                                |                 |
|--|---------------------------------|--|---|--------------------------------|-----------------|
| <b>Product size</b>                        | 300(W) X 487(H) X 465(D)mm      | <b>Weight</b>  | 20kg  | <b>Water dispensing method</b> | Tankless system |
| <b>Water purification filter</b>           | 4 premium complex filters       | <b>Rated voltage</b>                                 | AC220V, 50-60Hz   | <b>Power consumption</b>       | 70W             |
| <b>Hydrogen content</b>                    | Max.: 1,570ppb, Avg.: 1,270 ppb | <b>Filter control</b>                                | A system with an embedded filter chip and main control board to control the usage amount and period |                                |                 |
| <b>ORP</b>                                 | Max.: - 620mV, Avg.: - 410mV    | <b>Hydrogen generation technology</b>                | Patented technology for generating high-quality hydrogen Mg-free and ozone-free hydrogen water      |                                |                 |
| <b>Electrical Safety Certification No.</b> | XH070308-17001A                 | <b>Electromagnetic wave Certification No. [MSIP]</b> | MSIP-REM-K72-kykhizen3plus  |                                |                 |

# Hydrogen Air – KYK Higen Air



## Hydrogen Air Mist Botox Higen A3

A device that detoxifies and purifies the body and improves the skin by sending hydrogen anions into the collagen layer

### Product specifications

|               |  |
|---------------|--|
| Function      | Generates 84,083ppm of hydrogen anions |
| Size          | 400 x 270 x 270mm                      |
| Weight        | 11kg                                   |
| Rated voltage | AC 110 ~ 240V [0.5A]                   |



## Hydrogen Air Suction Device Higen A2

A device that suctions hydrogen air through the hydrogen suction cannula to promote recovery from fatigue and detoxification of the body

### Product specifications

|               |  |
|---------------|--|
| Function      | Generates high-concentration hydrogen gas (3.5% or higher) |
| Size          | 120 x 350 x 330mm  |
| Weight        | 5.5kg  |
| Rated voltage | AC 110-240V [DC 2V 30A]                                    |

## Hydrogen Mist



## Portable Hydrogen Air Suction Device Higen A1

A device that suctions hydrogen air through the hydrogen suction cannula to promote recovery from fatigue and detoxification of the body

### Product specifications

|               |  |
|---------------|--|
| Function      | Generates high-concentration hydrogen gas [1% or higher] |
| Size          | 120(Ø) x 197(L)mm  |
| Weight        | 205g   |
| Rated voltage | DC 7.4V / Voltage: DC 12V                                |



LED lamp operating during hydrogen generation



## Smart Portable Hydrogen Water Generator

- A portable hydrogen water generator that can be used anywhere, anytime
- Generates a stable amount of hydrogen (400-800ppb) using the hydrogen generation technology
- High electrolysis efficiency and long lifetime with the use of platinum coated titanium
- Easy to clean, safe and sanitary
- Easy to carry and convenient to use
- Use spring water or purified water
- Automatically turns off after it is fully charged
- Hydrogen generation can be visually checked



Pink / Gold

### Product specifications

|              |                                  |
|--------------|----------------------------------|
| Product size | 65(W) x 270(H)mm                 |
| Power        | DC 5V, 500ml (Charged using USB) |

## Hydrogen Water Pouch

## Hydrogen Shower Head





**A healthy human body is weakly alkaline!**

## **KYK Alkaline Ionized Water**

### **About KYK Alkaline Ionized Water**

- **Oxidation-Reduction Potential**  
KYK alkaline water is comprised of the smallest water molecules (54Hz) on the Earth that has oxidation-reduction potential.
- **Ionized Minerals**  
It is rich in ionized minerals and active hydrogen that are beneficial for health.
- **Fast Absorption and Elimination**  
The water tastes soft, pleasant and refreshing, and gets quickly absorbed and eliminated by the body.
- **Customized Water Production**  
Users can obtain customized water for kids and adults and for making tea, cooking or use in skin care, and this enables convenient and effective use of water.
- **Verified Safety and Effectiveness**  
It has been verified for safety and medical effectiveness.
- **Approved for Providing Relief of 4 Major Gastrointestinal Symptoms**  
It has been approved by MFDS for its effectiveness in relieving chronic diarrhea, indigestion, abnormal fermentation in the gastrointestinal system and excess secretion of gastric acid.



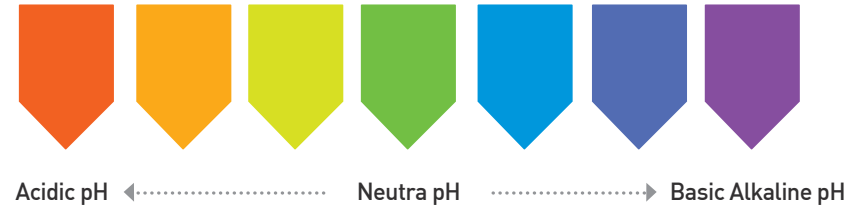
## Water Composition and Properties

The liquid inside these two cups may appear to be the same, but actually, drinking one of them will make you intoxicated. That's because alcohol has been added to one of these cups.

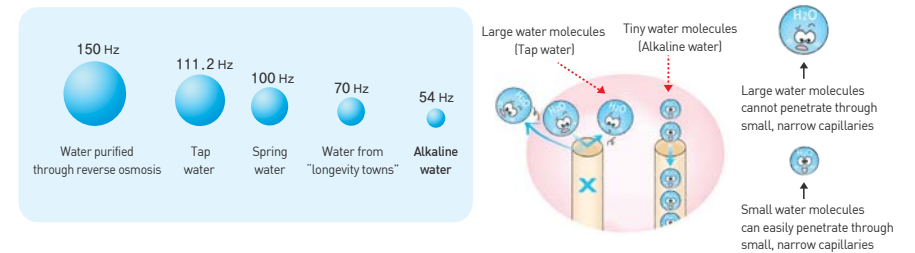
The general principle is that it is natural for substances including water to undergo changes in their properties and actions depending on its composition or what is mixed with them.



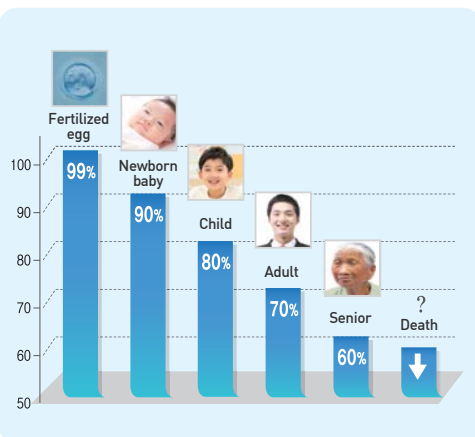
## pH Indicator Color Table



## A Comparison of Clusters (Water Molecule Size) (NMR, Nuclear Magnetic Resonance Device)



## Relationship Between Human Lifespan and Water



## The Human Body is 70% Water! We are essentially "Walking Water Bottles"!

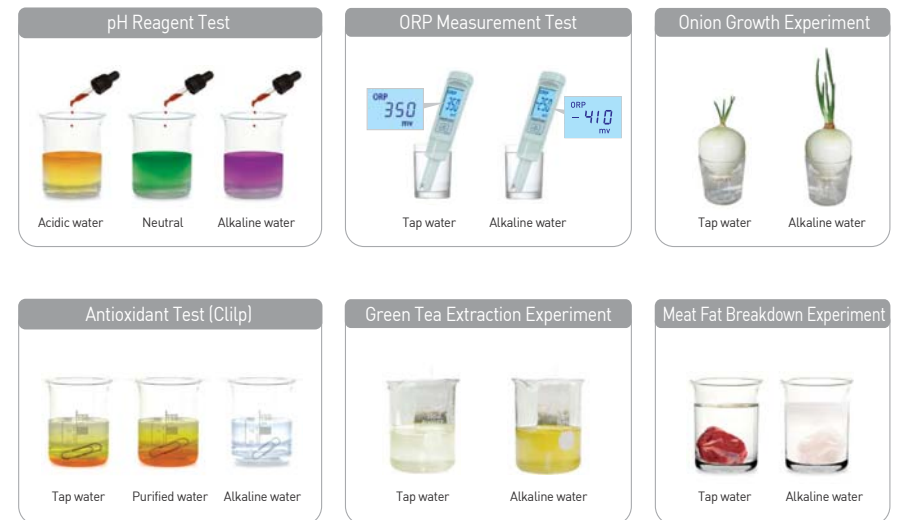
Water constitutes 83% of the blood, 75% of the brain, 72% of the skin and 90% of all cells of the human body. The secret to longevity lies in water.

The water we drink serves as the building block for blood, cells and tissues such as the skin.

The type and amount of water you drink and replenish your body will affect your overall health.



## Alkaline Water Experiment



## What is the most important part of the anatomy for trees?



Roots

No matter how strong the trunk and branches are and how dense the leaves are, if the roots have dried or rotted and cannot absorb any moisture (minerals), the tree will not be able to survive. The trunk, branches and leaves are important, but the most important part of a tree is its roots.

**The roots are the fundamental part of a tree that give it life.**

## What is the most important part of the anatomy for humans?



Intestines

Every part of the human anatomy is indeed important, but above all, it is the intestines that are the most important. Even if you have a fully functioning body, you won't be able to survive without eating, and even when you consume food, if it doesn't get digested and absorbed by the intestines, you will not be able to gain the nutrients you need to survive. Just as how a tree will inevitably wither and die if its roots are functional, humans cannot survive if their intestines do not function properly. The intestines of humans are comparable to the roots of trees. So keeping the intestines in a healthy state will allow you to maintain your health, and this is how you can achieve longevity. **The roots are equivalent to the intestines! Keep the intestines in a healthy state is how you can keep the "roots of your body" healthy.**

## Chemical Compounds That Cause Odor in Stool

- Hydrogen sulfide
- Ammonia
- Nitrosoamin
- Indol
- Histamin
- Phenol



Abnormal fermentation in the gastrointestinal system



Indigestion



Chronic diarrhea

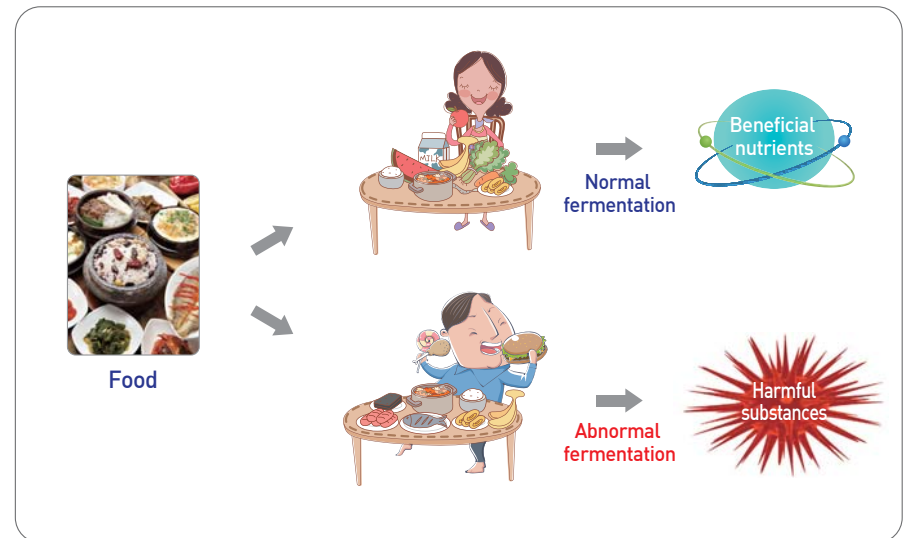
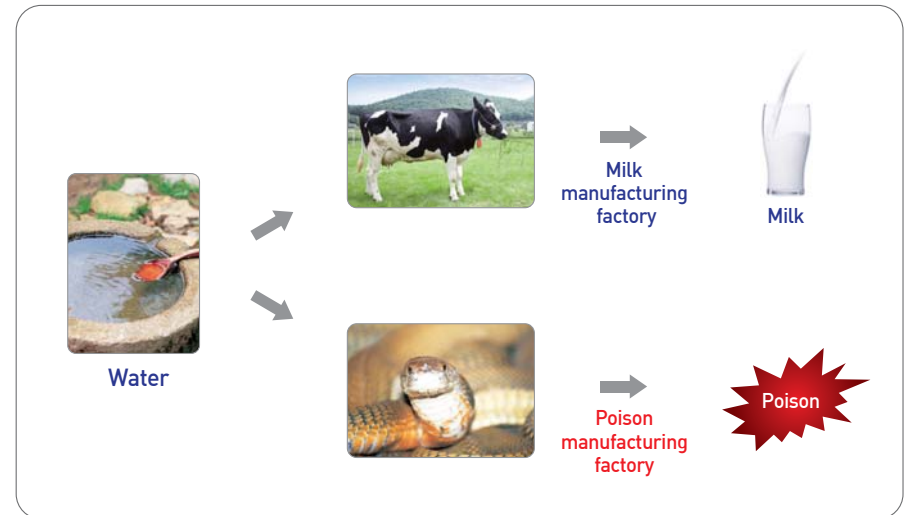


Excess secretion of gastric acid

Approved as water that provides relief for the four major gastrointestinal symptoms

(MFDS Approval No. 14-2865, etc.)

Different products will result from different factories even if the raw materials are the same!



# HISHA



Enhanced design and performance at half the price!

- Compact size for installation anywhere
- Electrolytic cell system developed with KYK's patented technology



### Notable strengths

- Enhanced design and performance at half the price!
- Patented high-performance electrolytic cell system with platinum coated titanium electrodes plates with 99.99% purity
- Detection and control of the amount of filter use and control of usage period
- Simple yet smart and refined design
- Operable at high or low water pressure thanks to the newly developed high-performance ceramic valve
- Automatic drainage system for enhanced convenience and safety

### Product specifications

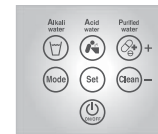
|                          |  |                     |                                  |   |   |
|--------------------------|--|---------------------|----------------------------------|---|---|
| <b>Product name</b>      | Alkaline water ionizer (Medical device)  | <b>Approval No.</b> | 15-297                           | <b>Approval</b>   | Water generator that helps provide relief of the four major gastrointestinal symptoms |
| <b>Product size</b>      | 220(W) X 322(H) X 100(D)mm   | <b>Weight</b>       | 2.4kg                            | <b>Rated voltage</b>  | AC 220V, 50-60Hz  |
| <b>Electrolytic cell</b> | An electrolytic cell system developed with KYK's patented technology that has electrolysis cell with high efficiency |                     | <b>Water purification filter</b> | 1 premium complex filter  |   |
| <b>Filter chip</b>       | Detection and control of amount of filter usage and use of standard filters, and control of usage period             |                     | <b>Water dispensing method</b>   | Tankless system / premium ceramic valves                              |   |
|                          |  |                     | <b>Water dispensing types</b>    | 4 types of alkaline water, 2 types of acidic water and purified water |   |

# Generation II Series



Smart and advanced system that generates high-quality Alkaline Ionized Water

- The voltage A (ampere) 4,000-level adjustment system
- Electrolytic cell system developed with KYK's patented technology



KYK30000



KYK33000



Special K1



KYK25000

### Notable strengths

- One-touch operating system with advanced sensors
- Large LCD screen and ORP and pH level indicated in 7 different colors
- Patented high-performance electrolytic cell with platinum coated titanium electrodes with 99.99% purity
- Self-diagnosis error-indicating system
- Alkaline ionized water generator with 2 filters for water purification and improved water taste
- Certified as Good Design for its modern design that looks stylish anywhere
- Automatic post-operation cleaning and drainage system for enhanced convenience and safety
- SMPS for power control system

### Product specifications

|                          |  |                     |                                  |   |   |
|--------------------------|--|---------------------|----------------------------------|---|---|
| <b>Product name</b>      | Alkaline water ionizer (Medical device)  | <b>Approval No.</b> | 07-667                           | <b>Approval</b>   | Water generator that helps provide relief of the four major gastrointestinal symptoms |
| <b>Product size</b>      | 340(W) X 340(H) X 150(D)mm   | <b>Weight</b>       | 6kg                              | <b>Rated voltage</b>  | AC 220V, 50-60Hz  |
| <b>Electrolytic cell</b> | An electrolytic cell system developed with KYK's patented technology that has electrolysis cell with high efficiency |                     | <b>Water purification filter</b> | 2 premium complex filters   |   |
| <b>Filter chip</b>       | Detection and control of amount of filter usage and use of standard filters, and control of usage period             |                     | <b>Water dispensing method</b>   | Tankless and automatic one-touch operation system                     |   |
|                          |  |                     | <b>Water dispensing types</b>    | 4 types of alkaline water, 4 types of acidic water and purified water |   |

# RP3·RE3



**A 3-filter system certified as Good Design that generates high-quality Alkaline Ionized Water**

- An even more innovative and impeccable system
- Electrolytic cell system developed with KYK's patented technology

RP3 Gold      RE3 Silver

GOOD DESIGN



### Notable strengths

- Certified as Good Design for its modern design that looks stylish anywhere
- 3 filters, improved electrolysis efficiency and improved taste of water
- Large luxury LED display and pH level display system
- Patented high-performance electrolytic cell with platinum coated titanium electrodes with 99.99% purity
- Premium aluminum hairline front panel
- Detection and control of the amount of filter use and control of usage period
- Automatic drainage system for enhanced convenience and safety
- Operable at high or low water pressure thanks to the newly developed high-performance ceramic valve

### Product specifications

|                          |  |                     |         |                                |   |                                  |                           |
|--------------------------|--|---------------------|---------|--------------------------------|---|----------------------------------|---------------------------|
| <b>Product name</b>      | Alkaline water ionizer (Medical device)  | <b>Approval No.</b> | 14-2865 | <b>Approval</b>                | Water generator that helps provide relief of the four major gastrointestinal symptoms |                                  |                           |
| <b>Product size</b>      | 314(W) X 425(H) X 124(D)mm   | <b>Weight</b>       | 5.1kg   | <b>Rated voltage</b>           | AC 220V, 60Hz   | <b>Water purification filter</b> | 3 premium complex filters |
| <b>Electrolytic cell</b> | An electrolytic cell system developed with KYK's patented technology that has electrolysis cell with high efficiency |                     |         | <b>Water dispensing method</b> | Tankless system / premium ceramic valves  |                                  |                           |
| <b>Filter chip</b>       | Detection and control of amount of filter usage and use of standard filters, and control of usage period             |                     |         | <b>Water dispensing types</b>  | 4 types of alkaline water, 2 types of acidic water and purified water                 |                                  |                           |

# KYK66000 Series



**Smart Alkaline Water Ionizer**

- Improved spatial utility through under-sink installation
- Electrolytic cell system developed with KYK's patented technology

KYK66000 / 66000



### Notable strengths

- One-touch operating system with advanced sensors
- An under-sink type (KYK66000) for enhanced spatial utility
- Patented high-performance electrolytic cell with platinum coated titanium electrodes with 99.99% purity
- An audio message for each function
- An alkaline water ionizer with a filter to purify water and improve the taste of water
- Displays the pH level and ORP, which are the key information on water
- Detection and control of the amount of filter use and control of usage period
- Automatic post-operation cleaning and drainage system for enhanced convenience and safety

### Product specifications

|                          |  |                     |        |                                |   |                                  |                          |
|--------------------------|--|---------------------|--------|--------------------------------|---|----------------------------------|--------------------------|
| <b>Product name</b>      | Alkaline water ionizer (Medical device)  | <b>Approval No.</b> | 08-730 | <b>Approval</b>                | Water generator that helps provide relief of the four major gastrointestinal symptoms |                                  |                          |
| <b>Product size</b>      | 280(W) X 350(H) X 156(D)mm   | <b>Weight</b>       | 6kg    | <b>Rated voltage</b>           | AC 220V, 50-60Hz  | <b>Water purification filter</b> | 1 premium complex filter |
| <b>Electrolytic cell</b> | An electrolytic cell system developed with KYK's patented technology that has electrolysis cell with high efficiency |                     |        | <b>Water dispensing method</b> | Tankless and automatic one-touch operation system                                     |                                  |                          |
| <b>Filter chip</b>       | Detection and control of amount of filter usage and use of standard filters, and control of usage period             |                     |        | <b>Water dispensing types</b>  | 4 types of alkaline water, 4 types of acidic water and purified water                 |                                  |                          |

# KYK has solved the problem!

Although hot water is used for less than 10 minutes on average a day. (in a home), the conventional cold and hot water dispensers heat water around the clock, which causes 3 major problems.

## • Problems •

1. High power consumption
2. Changes in the water properties caused by prolonged heating
3. Cold water mixing in with hot water after dispensing 2 to 3 cups of water



## • Solutions •

1. No power consumption after the 10-min operation
2. Water is heated instantaneously when it is being dispensed to keep its natural properties intact
3. Unlimited amount of water at constant temperature can be dispensed



GOOD DESIGN



Wow! Look at the wonderful design!  
Hu? Where's the water outlet tap?

## Instantaneous heating and cooling system with a hidden auto tap

KYK707 is an amazing Alkaline water ionizer that dispenses customized water through a hidden tap as soon as a cup is placed in position

💡 Electrolytic cell system developed with KYK's patented technology



KYK 707 / 777



The water tap retracts when it is not in use so that the device appear more simple and sophisticated and no fine particles enter into it.



When you place the cup in position, the water tap will extend out to dispense the type of water you selected.



Touch the type of water that you want to drink



The filter can be replaced easily by anyone, without the use of any tools.



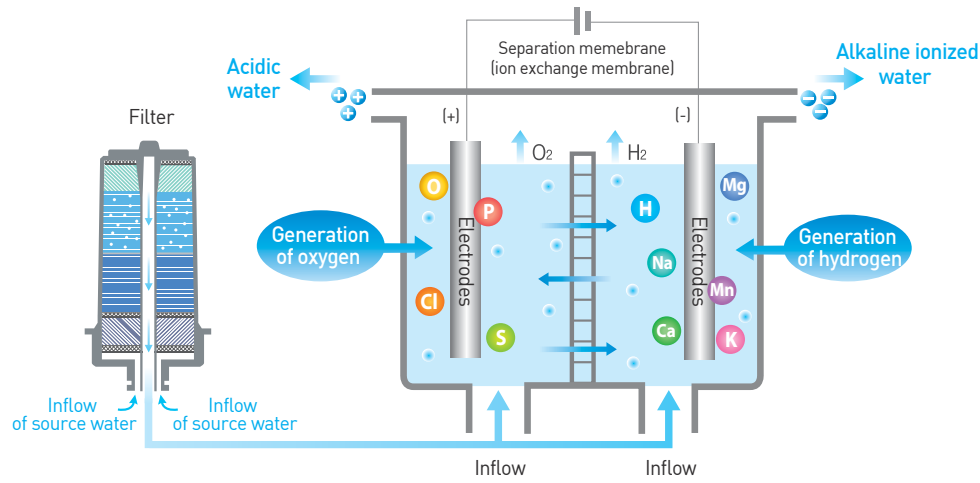
### Notable strengths

- No need for a cold or hot water tank, as it is directly connected to the water pipe
- A cold and hot alkaline water ionizer that instantaneously cools and heats water
- Patented high-performance electrolytic bath with platinum coated titanium electrodes with 99.99% purity
- Certified as Good Design for its simple yet elegant and classy design
- 4 filters that purify water and improve the taste of water
- A hidden water tap that prevents fine particles and bugs from entering into the device
- Detection and control of the amount of filter use and control of usage period
- Automatic post-operation cleaning and drainage system for enhanced convenience and safety

### Product specifications

|                           |  |                   |  |                         |   |
|---------------------------|--|-------------------|--|-------------------------|---|
| Product name              | Alkaline water ionizer (Medical device)  | Approval No.      | 13-1327  | Approval                | Water generator that helps provide relief of the four major gastrointestinal symptoms |
| Product size              | 300(W) X 487(H) X 465(D)mm   | Weight            | 20kg   | Water dispensing method | Tankless system   |
| Water purification filter | 4 premium complex filters  | Electrolytic cell | An electrolytic cell system developed with KYK's patented technology that has electrolysis cell with high efficiency |                         |   |
| Filter chip               | Detection and control of amount of filter usage and use of authentic filters, and control of usage period  |                   |  |                         |   |
| Water dispensing types    | Cold and weakly alkaline water (Levels 1 and 2, pH 8.5 and 9.0), weakly alkaline water at room temperature (Levels 1 and 2, pH 8.5 and 9.0), alkaline water at room temperature for making tea or cooking (Levels 3 and 4, pH 9.5 and 10.0), hot water, and purified water |                   |  |                         |   |

## Principles of Alkaline Water Generation



## Filters / Water Purifiers / Pre-treatment Filters



## Portable Alkaline Water Sticks / Electrolytic Cells / Other Parts & Components / Shower Heads



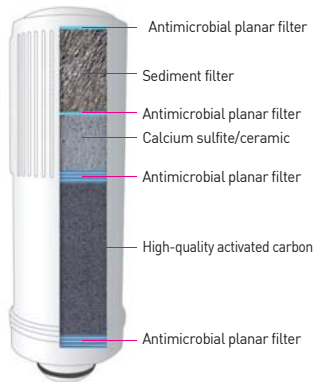
Titanium sticks that generate natural alkaline water

A wide range of electrolytic cells manufactured using patented technology

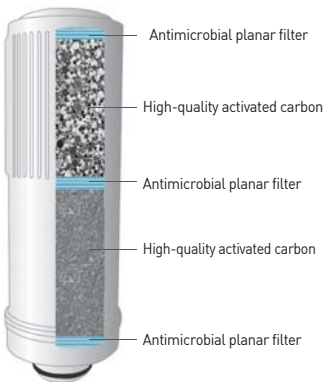
The diverter valves and adapters

Stainless steel hose, fittings, solenoid valves, booster pumps, etc.

## Structural Diagram of the Filter



## Natural Alkaline Water Ionizer Developed with KYK's Patented Technology



Activated carbon and ceramic balls



Shower heads

## Industrial and Commercial Uses



Industrial use



Hospitals, restaurants and shops



Hospitals and clinics incl. traditional Korean medicine clinics



Water treatment facilities





# KYK HIGEN

Hydrogen Water, Hydrogen Air



# HI, HYDROGEN

and Alkaline Ionized Water



## 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.

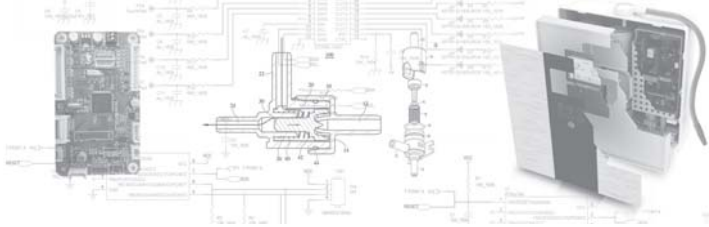
### Key Characteristics of Alkaline Water Ionizer

**Alkaline Ionized Water Technology:** ① Electrolytic cell: The electrolytic cells plays the most crucial role in a Alkaline water ionizer, and it is comparable to the engine of a car. With a patented electrolytic cell technology, KYK has differentiated the performance (water quality and taste, and product effectiveness, lifetime and functions, etc.) of its products, which boast superiority over its counterparts.

② (A) Ampere adjustment levels: The DC supplied to the electrolytic cell can be precisely controlled to 4,000 levels (4 pH levels x 1,000 levels = 4,000 levels). This is a special type of technology that helps address the issue of variability in the pH level resulting from changes in the amount of supplied water, and allows users to generate Alkaline ionized water in the exact pH level that they desire.

③ Clinical trial: A clinical trial has been completed at the prestigious Seoul National University Hospital in Bundang, Korea after obtaining approval from the Institutional Review Board (IRB), and the remarkable clinical result of "85.7%" astonished the investigators and medical staff.

④ Non-powered automatic channel switch valve: The non-powered automatic channel switch valve developed with KYK's patented technology switches the channels without requiring any electrical power. This in turns saves electricity and boosts product performance and lifetime.



Here are the footsteps of KYK, which has been striving to help consumers achieve good health and happiness and create a better world.

Based on abundant experiences, KYK is constantly broadening the horizon to head toward a better future.



People across the world from more than 50 countries are drinking KYK water! No matter where they live, what they eat, and how they look.

### History



- Became the world's first to successfully perform an IRB-approved clinical trial on water at SNUH Bundang in Japan
- Received Gold Medal at the World Genius Competition in Japan
- Received Grand Prix at International Innovative Design and Technical Products in Hong Kong
- Received Gold Medal at the Japan World Genius Competition
- Selected as a hit Korean brand by Chinese consumers
- CEO Kim Young Kwil, invited to the 7th World Water Forum to give a presentation at the Water Business Forum
- Awarded the Minister of Health and Welfare Prize
- Awarded the Ministry of Environment Prize
- Acquired the Asia LOHAS certification
- Received Consumers' Choice Award for 4 consecutive years
- CEO Kim Young Kwil, selected as Global L leader of Korea for 4 consecutive years
- Selected as the Consumer Trusted Brand for 2 consecutive years
- Received the Quality Satisfaction Award chosen by female consumers
- Received Korea's Economic Leader Award
- Conducted research on hydrogen water and began selling developed products
- Received the Top Excellence Prize at the 5th Korea Knowledge Economy Awards
- Certified as Genuine and Excellent Product Made in Korea by the Korea International Trade Association
- Selected as Promising SME in Gyeonggi-do for 2 consecutive years
- Received Korea's New Technology Product Frontier Award for 2 consecutive years
- Selected as one of the 33 Most Influential People Today
- Selected as e-Power 300 Companies by KOTRA

### 2010s

- Awarded the National Invention Iron Tower Order of Industrial Service Merit on the 48th Invention Day
- Received Gold Medal at an international invention fair in Geneva, Switzerland
- Received Gold Medal at international invention fairs in Korea and China
- Received Gold Medal at an international invention fair in Malaysia
- Received Korea's New Technology Product Frontier Award for 2 consecutive years
- Received the Minister of Knowledge Economy Prize (Korea)
- Certified as Main Biz at the Seoul International Invention Fair
- Received Excellent Invention Prize from the Commission of KIPO
- Received Top Food Environment Management Prize (Korea)
- Acquired overseas certifications incl. CE, NRTL, C-tick and FCC
- A brand guaranteed by KOTRA
- Awarded SMOA Commissioner's Commendation
- CEO Kim Young Kwil, selected as Global CEO of Korea for 2 consecutive years
- Selected as Excellent and Happy Workplace by the Small & Medium Business Corporation

### 2000s

- Acquired GMP certification from MFDS
- Acquired approval from MFDS for providing relief for the 4 major gastrointestinal symptoms
- Established KYK Alkaline Water Ionizer Co., Ltd.
- Established KYK R&D Center
- Received gold medals at international invention fairs in Germany and Seoul, etc.
- Received Vice Minister of Science and Technology Award (Korea)
- Received Korea's Best Product Prize
- Selected as Excellent Product by the Korean Standards Association (KSA)
- Acquired LOHAS certification from the Korean Standards Association (KSA)
- Selected as Promising Exporting SME
- Certified as INNO-BIZ
- Certified as Venture Company
- Received the Top Small- and Medium-sized Business Owner Prize from the Mayor of Seongnam

### 1990s

- Conducted research on 33 types of water, based on Donguibogam (Principles and Practice of Eastern Medicine)
- Conducted research on hundreds of types of water found across the world
- Developed R/O water purifier
- Conducted research on alkaline water
- Developed and began selling alkaline water products

### 1980s

- Began water research in the field of natural science and medicine based on a special impetus and personal philosophy
- Conducted orthomolecular medicine research
- Established Daewon Electric Trading Company
- Developed a water purifier using eivan and ratan
- Established the Korea Water Science Research Institute

## High Quality, Low Price and Fast Action



100% testing and inspection system to check for normal operation and water leakage



Aiming for zero defects with eagle eyes and a strong focus!

## One-stop Service Through Direct Research, Development, Manufacturing and Sales



KYK R&D Center [Certification No. 20053047]



Filter production line

Automated production line



A view of KYK R&D Center

KYK Healing Center in Pangyo

KYK Office in the Trade Tower in Gangnam

KYK research lab and factory in Seongnam

**National Invention Iron Tower Order  
of Industrial Service Merit on the 46<sup>th</sup> Invention Day**



**CEO Kim Young Kwi**  
has dedicated himself to water science research for 37 years to promote the health of mankind, acquired intellectual properties including multiple patents, won 11 gold medals at international invention fairs in Germany and many other countries, and awarded the National Invention Iron Tower Order of Industrial Service Merit from the then-President Lee Myung Bak on the 46<sup>th</sup> Invention Day in recognition of his contribution to the enhancement of national prestige and the national industrial development, in accordance with the Constitution of the Republic of Korea.

**11 gold medals at international invention fairs  
in Germany and Switzerland, etc.**



11 gold medals at international invention fairs



Gold medal at the World genius competition in Japan



Grand prix at a global invention fair in Hong Kong



Prize at the Seoul International Invention fair



Hidden champion prize from the commissioner of KIPO



Excellent patent management prize



Gold medal at an international invention fair in Germany



Grand Prix at International Innovative Design and Technical Products in Hong Kong



Korea's New Technology Product Frontier Award for 2 consecutive years



Consumers' Choice Award for 4 consecutive years



Exhibition at the Louvre in France



Dr. Kim Young Kwi gives presentations at water seminars worldwide



Member of an economic delegation sent to France and Iran



CSR company award

**Books, Papers, and Articles**



Dr. Kim Young Kwi selected as one of the 33 Most Influential People Today



Presentation at the National Science and Technology Fair (Dr. Kim Young Kwi and Dr. Shirahita win awards), KAST, Oct. 2004



Mentioned in "Global CEO: Expand the Economic Territory"



Mentioned in "Global Leader: Embrace the World"



Publication of multiple papers in scientific journals



"The Secret of Life-giving Water" (authored by Dr. Kim)



Dr. Kim Listed in "The Most Influential People Today in Korea"



Special article in the special edition of "Monthly JungAng" published to commemorate the 100th anniversary of Samsung Chairman Lee Byung Chul's birth



Article on "Quality Management" by KSA



Article published by "The Economist"



Article published by "Patent News"



Article published by "Forbes Korea"



Article published by "Book Life"

**Newspaper Articles** Articles published regarding KYK Alkaline Water Ionizer



## KYK spread throughout the world!



Dr. Kim's Seminar in Russia



Dr. Kim's Seminar in Beijing, China



Dr. Kim's Seminar in Italy



Member of an economic delegation sent to France



Member of an economic delegation sent to Iran



A Public Lecture at Exhibition in Singapore

## Featured on hit TV series! Many celebrities drink KYK Alkaline ionized water!



KBS2 My Husband Got a Family



MBC Feast of the Gods



MBC New Tales of Gisaeng



MBC An Angel's Choice



KBS2 Ojakgyo Brothers



KBS1 Just You



MBC Indomitable Daughters-in-Law



SBS Dummy Mommy



## Featured in TV shows

Appearances made by Dr. Kim as a water expert and shows featuring KYK Alkaline Water Ionizer



MBC Live Morning News



KBS1 Multiple appearances as a water expert on "Ask Anything"



MBC Live Morning News



SBS Living and Economy News



TV 조선 My Body Plus



MBN Golden Egg



KBS2 Yeo Yu Man Man



CBS Health Plus (lecture series)



SBS Morning Wide



YTN Documentary S



SBS Water Is Life



MBC Live Morning News







































MBC Well-rounded Beauty



SBS Heated Battle for Success

## I Awards, Certifications and Approvals Based on 37 Years of R&D I

|   |  |  |  |   |   |   |   |
|---|--|--|--|---|---|---|---|
|    | Awarded Inventaion Steel Tower Industry Honour   |    | 11 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   |

## 

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