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Alkaline Water & Life

Deep inside a human body breathes ion water. For those of you who desire to keep the valued water for life, Biontech offers ion water. You could experience new feelings and mysteriousness that you have never encountered before.



Specialized ion water Device Manufacturer



Biontech & Alkaline water

Living ion water,
Experience it in its original
form through Biontech.



CEO Message

Whether you take a right path, and how much you are successful are all important in living one's life. But I believe what matters more than those is what you do with what kind of values. I become to know alkaline water ionizer and began to preach health-enhancing quality of ion water from 1983 in Korea, which was back then an uncharted land for ion water.

Looking back all those years of my consistent efforts to build what is now an established water ionizer provider, Biontech, now seems to be a saga.

Based on scientific theories and the results of clinical tests conducted on myself and our customers, I judged that using alkaline water is one of the safest health-boosting methods that could be easily adopted and widely used. Throughout my whole life, so far, I have led the alkaline water ionizer industry, while providing people of different races, gender and ages with chances to live a healthy life. Now watching water ionizers spreading across the world and widely used in people's daily lives gives me happiness and sense of fulfillment.

Biontech is currently producing the largest number of water ionizers in the world. Building on its technological prowess, the company has earned international brand power and secured world-class production facilities. In preparation for an explosive demand growth for water ionizer, Biontech has made investments to build a factory that could manufacture one million units of water ionizer a year as well as a world-class research center. Drawing upon its advanced technologies and competitiveness of its products without self-complacency, Biontech will offer more advanced, customer-oriented items, thereby contributing to enhancing the health of mankind through health-boosting qualities of ion water.

September , 2008

Cho Gyu-dae, Representative Director of BIONTECH Co., Ltd.



Water in its original form! The mysteriousness of live creation!

Since water accounts for 70% of human body, people become dehydrated when they lose 5~10% of water, and lose life when losing 12% of it. When absorbed by body, water is not instantly excreted, but stays in the body for about 90 days and influence metabolism. Likewise, water is closely related to health and life of humans. Therefore, knowing what kind of water we are now drinking and what kind of water we should drink is a significant matter that would determine our health. Water in its original form. There lies the mystery of life creation. Humans are making incessant efforts to find the water in its original form, since such water has the same substances consisting human body fluids.

The substances are also the same with the amniotic fluids that are provided for us from our growth in mother's womb to birth. Water contained in human body is producing a remarkable drama of life by influencing metabolism. Water secretes digestive fluid, absorbs nutrients and excretes waste materials. It also melts inorganic salts to maintain pH and homeostasis of the body. On top of that, it preserves the environment in its normal form. Blood, of which 83% substance is water, delivers nutrients and oxygen to cells, while delivering waste materials and carbon dioxide out of the body.

Ion Science Biontech



Building on its search for the water in its original form, consistent R&D efforts and its twenty five-year experiences, Ion Science Biontech has taken a single path to provide customers with the best alkaline water ionizers and medical devices. The company is taking a lead in the world's water ionizer industry through its stringent quality management and incessant R&D efforts. Its research activities and efforts will continue into the future for healthy life of people and provision of clean alkaline water.

History & Technology

About Biontech?

As a company specialized in medical devices, BIONTECH Co., Ltd. has developed itself as the world-class alkaline water ionizer. By investing over 10% of its revenues in R&D, it has developed unique new products and implemented constant quality innovation, thereby contributing to health improvement of not only Koreans but also people of the world through export. Looking forward, BIONTECH Co., Ltd. will become a global leader in the field of biotechnology such as electronic health devices and household medical devices.

1986~1999

- 1986. 01 Established Dae-A, a medical device sales corporation
- 1993. 03 Started the manufacturing business of medical device (acquisition of 30 kinds of item permission)
- 1995. 05 Completed water ionizer development (acquisition of medical device manufacturing permission of Ministry of Health and Welfare)
- 1995. 05 Acquired Q mark of Korea Testing & Research Institute for Chemical Industry
- 1995. 09 Acquired the product item permission of Ministry of Health and Welfare No.2(SDM-1000)
- 1998. 06 Completed Gunpo Factory, Gyeonggi-do (gross floor area, 1,878m large)
- 1998. 10 Acquired TUV and CE Certificates
- 1999. 10 Acquired UL Certificate and CSA Certificate
- 1999. 12 Acquired the product item permission of SDM-3000

2000

- 2000. 02 Changed the business name to Bion Tech Co.,Ltd
- 2000. 08 Medical device manufacturing business permission No.889
- 2000. 08 BTM-1000 / BTM-2000 / BTM-3000, acquired the product item permission
- 2000. 10 BTM-4000, acquired the product item permission
- 2000. 11 Acquired ISO-9001 Certificate
- 2000. 12 Selected as new technology venture firm

2001

- 2001. 04 Personal combinational stimulator(BTM-6000), acquired the product item permission
- 2001. 06 BTM-5000, acquired the product item permission
- 2001. 07 Developed an auto control circuit of water ionizer in the industry educational consortium
- 2001. 12 BTM-9000, acquired the product item permission

2002

- 2002. 05 BTM-7000, acquired the product item permission
- 2002. 07 Selected as a promising small firm of Gyeonggi-do
- 2002. 10 BTM-8000, acquired the product item permission
- 2002. 12 Developed and started export of wash water manufacturing facility

2003

- 2003. 01 BTM-900, acquired the product item permission
- 2003. 05 BTM-700, acquired the product item permission
- 2003. 09 BTM-800, acquired the product item permission
- 2003. 09 Completed the factory 2, Geumjeng-dong, Gunpo-si (gross floor area, 4,200m large)
- 2003. 09 Secured the production plant of water ionizer capable of 200 thousands of sets
- 2003. 09 BTM-5000, selected as a hit product by Hankooki Ilbo
- 2003. 10 Entrusted Dr. Jeon Mu Sik, a professor of KAIST as an advisor
- 2003. 10 Started producing Japan ASCO JAPAN Tech Tied Air Purifier

2004

- 2004. 02 Acquired NRTL
- 2004. 04 Supported the clinical research of Medical College, Yonsei Univ. (promotion of immune system and elimination of free radicals)
- 2004. 05 BTM-300N, acquired the product item permission
- 2004. 06 BTM-600N, acquired the product item permission
- 2004. 08 BTM-400N, acquired the product item permission
- 2004. 10 Bion Tech 500, acquired the product item permission
- Production relying on the clean two way method electrolytic cell

2005

- 2005. 02 Supported the clinical research of Medical College, Yonsei Univ. (study on dementia, a kind of senile disease and hyperlipidemia)
- 2005. 03 BTM-103D / BTM-200N / BTM-100N acquired the product item permission

2005

- 2005. 03 Won the Power Innovation Award in the field of medical device selected by Hankooki Ilbo
- 2005. 05 Registered to FDA
- 2005. 05 Established Bion Tech Research Institute of Technology
- 2005. 05 Selected as KGMP competent company
- 2005. 06 Acquired the company attached research institute certificate, No.20052004
- 2005. 09 Won the ' Best Brand of Korea ' in the field of water ionizer selected by Association of Korean Journalists

2006

- 2006. 12 Won 2006 VIP ASIA DIGITAL Household Electronics in the field of Water Ionizer

2007

- 2007. 06 Released BTM-102G (Arisu)
- 2007. 09 Acquired Japanese PSE certificate
- 2007. 11 Won the tower of export on the trade day
- 2007. 12 Won the prize of Korea Business Innovation Award

2008

- 2008. 01 Won 2007 VIP ASIA DIGITAL Household Electronics in the field of Water Ionizer for 2 consecutive years.
- 2008. 03 Selected as an INNQBIZ
- 2008. 03 Acquired ISO 14001 (international standard for environmental management system)
- 2008. 04 BTM-102F/102G acquired CE and NRTL
- 2008. 05 Won the Company of Korea 2008, Business Innovation Prize selected by Korea Customers' Forum and Joong-Ang Ilbo
- 2008. 05 Won 2008 VIP ASIA DIGITAL Household Electronics in the field of Water Ionizer for 3 consecutive years.
- 2008. 07 Released BTM-505N

Certificates Attestation



>> Selected as KGMP competent company



>> The Korean Food and Drug Administration



>> Korean Intellectual Property office



>> Small and Medium Business Administration



>> Acquired the company attached research institute certificate, No.20052004



>> Acquired ISO 9001 Certificate
Acquired ISO 14000 (International standard for environmental management system)



>> Registered to FDA



>> Electricity Safety Certificate of the U.S. and Canada



>> U.S. and Canada NRTL Certificates



>> CE-European Quality Certificates



>> Acquired Japanese PSE certificate



>> Won 2008 VIP ASIA DIGITAL Household Electronics in the field of Water Ionizer for 3 consecutive years.



>> Won the tower of export on the trade day



>> Won the Company of Korea 2008 Business Innovation Prize selected by Korea Customers' Forum and Joong-Ang Ilbo



>> Won the Company of Top100 of Small and Medium size business of Korea by Hankooki Ilbo



>> Won the 'Best Brand of Korea' in the field of water ionizer selected by Association of Korean Journalists



>> Won the prize of Korea Business Innovation Award

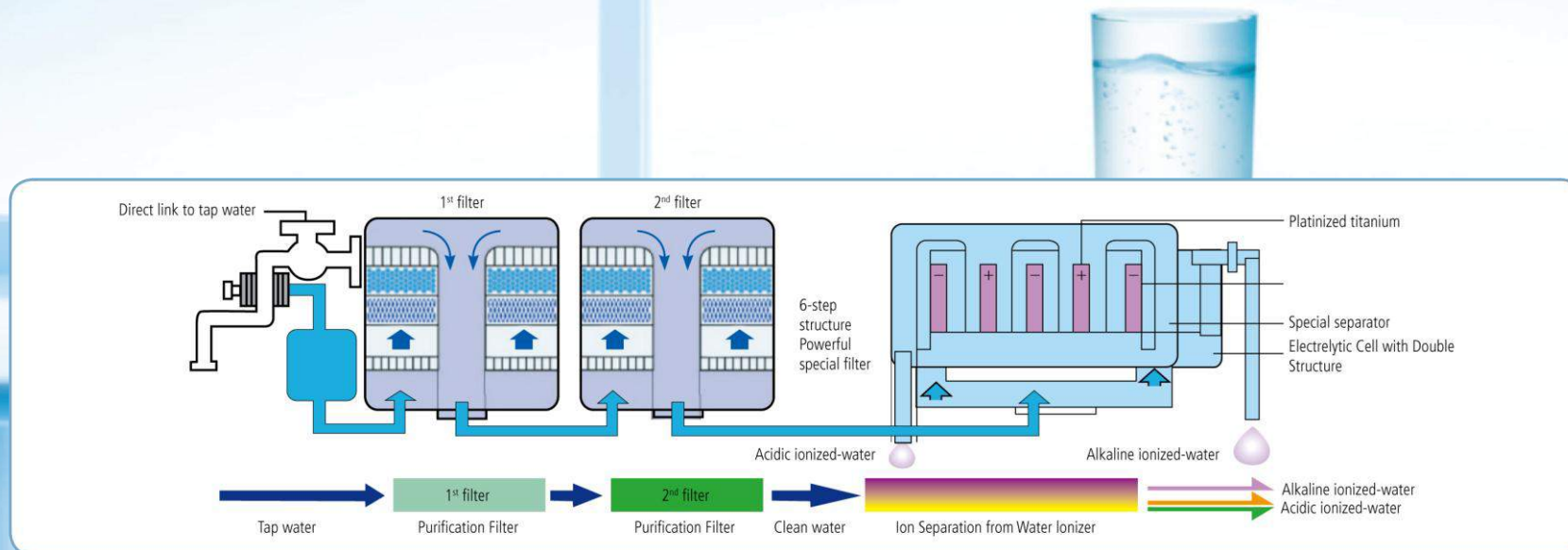
Alkaline Water & Health

What is Ion water with full life?



How ionized water is created? Principle

As the original form of water, tapped water is filtered and get electrolyzed, alkaline water is created at a cathode and acidic water at an anode. Since a cathode contains lots of positive ionic substance, such as Ca^{2+} , Mg^{2+} , K^{+} and Na^{+} , as well as H_2 , alkaline water with high pH is created. An anode, which has a lot of negative ionic substance, such as Cl^{-} and S^{-} , produces acidic water with low pH.





How ionized water is created? Principle

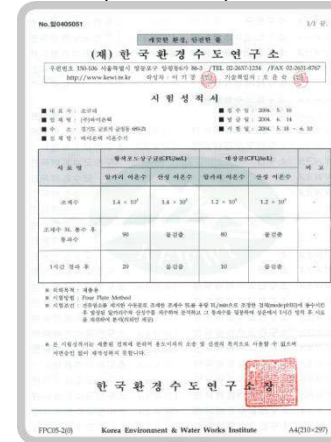
Features of alkaline water

- Alkaline water is rapidly absorbed and spread within organs' cells thanks to its small water size (cluster).
- Alkaline water ionizes essential minerals in water into electric energy, thus well absorbed and is at its activated status due to its use of electric energy.
- Alkaline water is without germs and has medical benefit of eliminating waste material.
- Over -500mV ORP resulted from strong electric energy and active hydrogen eliminates free radicals.(Anti-oxidation effect)
- Alkaline water promptly eliminates acid in the body and maintains balance.

Features of acidic water

- Acidic water has good sterilizing power and controls pH of skin.
- Acidic water has contraction and astringent effect.

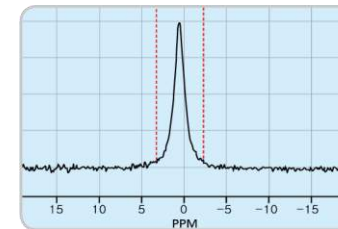
Test Report issued by the Korea Environment & Water Works Institute



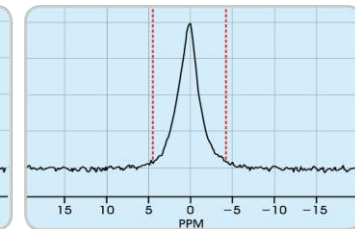
Comparison of cluster size by water type

Type	Size of Water Module
Tap water(pH7.5)	104.8479Hz
Acidic water(pH2.8)	55.2724Hz
Alkaline water(pH9)	51.3593Hz
Alkaline water(pH10)	50.0761Hz

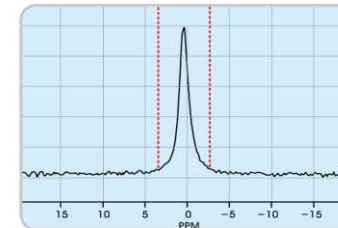
By KAIST on March 16, 2004 (BTM-700) (Photographed by KAIST magnetic resonance imaging)



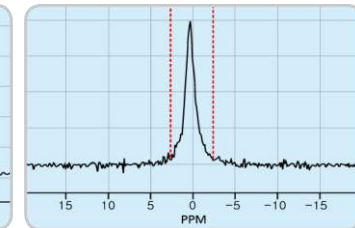
Acidic Water pH2.8



Tap Water pH7.5



Alkaline Water pH10.0



Alkaline Water pH9.0



Ion-crystal water Ion-crystal-water

▶▶ What is ion-crystal water?

In fluid water, each water molecule does not exist independently but is linked together in a pentagon or hexagonal ring, which is called five-angled ion-water or ion-crystal water. A research by Professor Jeon Moo-shik at KAIST categorized the chemical structures of drinking water into three: a hexagonal ring structure, a pentagon ring structure and a pentagon chain structure. Among them, a hexagonal ring structure is the most beneficial to body cells. Professor Jeon noted that the easiest way to produce it is to ionize water into ion-crystal water. The method produces ion water (ion-crystal water) by electrolyzing water

▶▶ How ion-crystal water is produced?

- Electrolyzed ion water (alkaline water and acidic water) ⇒ produced by unit of second
- Magnetized water using a magnet ⇒ produced by unit of minute
- Treated with far infrared rays (using 7~14 micron) ⇒ produced by unit of hour, Ultrasound ⇒ produced by unit of day

▶▶ How living water, "alkaline water" is good for human body?

- Alkaline ion-crystal water, of which natural minerals are not destructed and with lots of hexagonal-ringed molecules is found in villages across the world that are famous for longevity.
- It eliminates waste materials and has highly concentrated health-benefiting minerals. Drinking clean and fresh "alkaline water" is the short cut to health.
- Alkaline ion-crystal water is living water that prompts physiological functions such as elimination of waste materials and provision of minerals that we could easily lack.



What is pH? About pH?

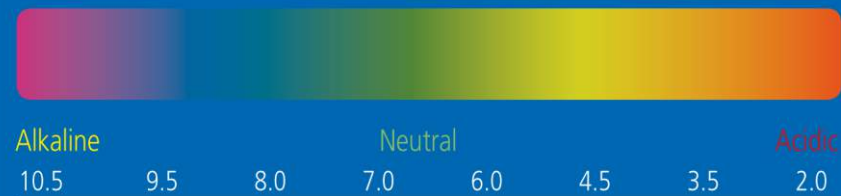
▶▶ What is pH (Power of Hydrogen)?

Power of hydrogen refers to the hydrogen ion concentration of aqueous solution. If a substance contains more H⁺ ion than OH⁻ ion at its aqueous solution, the substance is alkaline, and if there is more OH⁻ than H⁺, then it is called acidic.

▶▶ pH of ion water

- Alkaline water : When H₂O is dissociated into H⁺ and OH⁻, most H⁺ receive an electron to turn into H₂, while some OH⁻ are combined with positive ions and the remaining OH⁻ is left in the water as OH⁻. ⇒ pH is alkaline.
- Acidic water : When H₂O is dissociated into H⁺ and OH⁻, most of them lose electrons to become O₂ and H⁺ is left in the water. ⇒ pH turns into acidic.

pH Comparison Chart



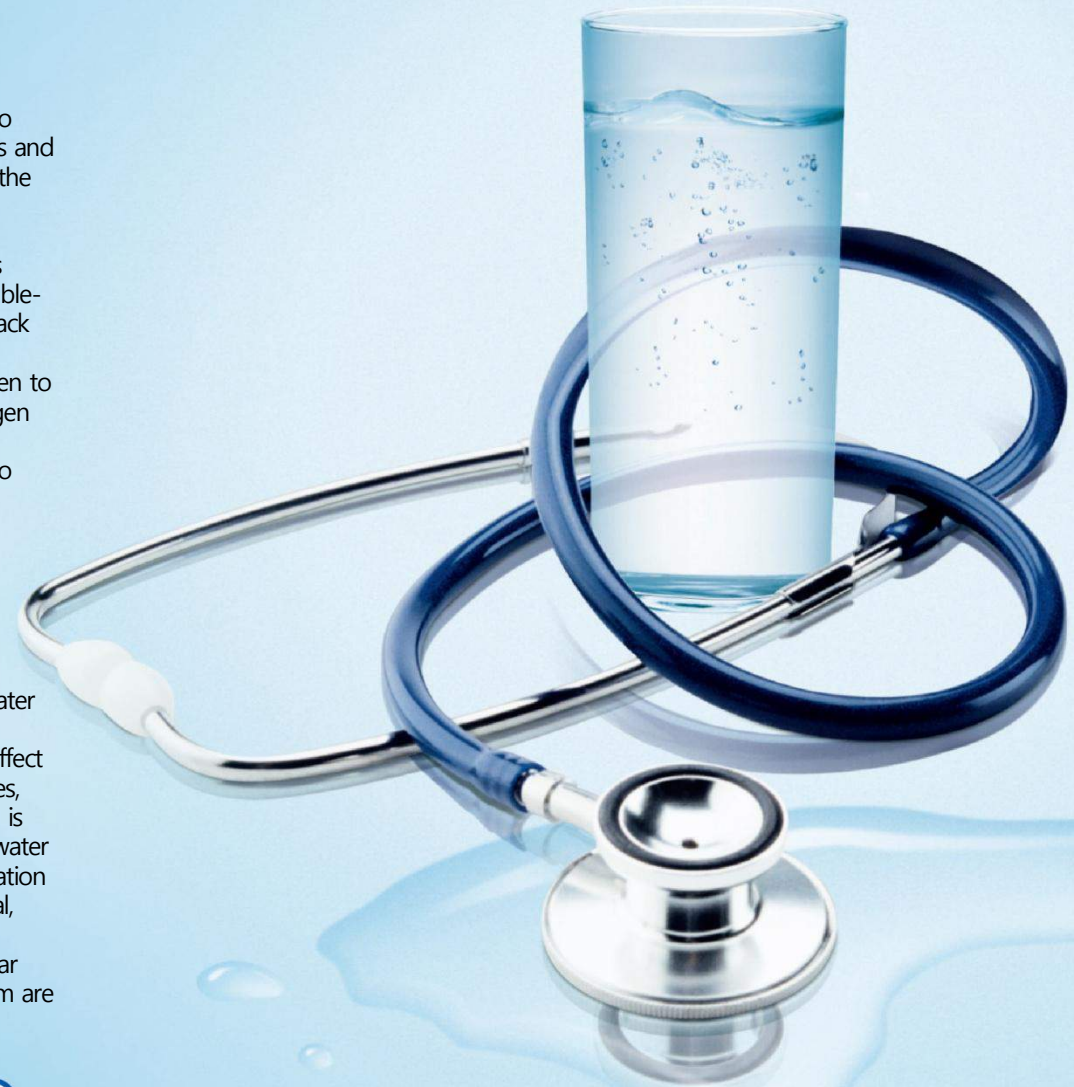
Alkaline water and Reactive oxygen

Alkaline water and Oxygen free radicals

Three to ten percent of oxygen inhaled by mammals, including humans is transformed into reactive oxygen. Reactive oxygen plays a significant role, because when germs, virus, molds and other foreign substance invade into the body, macrophages within a leukocyte eliminates the alien materials by using reactive oxygen, thereby protecting the body. However, when the level of reactive oxygen increases more than needed due to ultra rays, intake of medicine and environment pollutants, it regards even healthy cells and organs as alien substances and attacks them to inflict medical damage. Therefore, it works like a double-edged sword. When the amount of oxygen free radicals becomes excessive and set to attack healthy cells and organs, an enzyme, called super oxide dismutase (SOD) in the body disintegrates the reactive oxygen. The damages done by environmental destruction are seen to be the results of excessive oxygen free radicals produced by chemicals, sterilizer and nitrogen compound such as radioactive rays, agricultural chemicals, pesticides, processed food and anticancer drugs. It would be nice, if SOD works well to get rid of excessive free radicals, no matter how much of them are created. But SOD gets weaken with aging.

Water that eliminates reactive oxygen free radicals, the source of various diseases

The research paper, titled "Alkaline water eliminates free radicals and protects DNA from oxidative damages" by professor Shirahata at Kyoto University in Japan referred alkaline water electrolyzed at a cathode. He argued that the active hydrogen contained in electrolyzed reduced water gets rid of reactive oxygen, hence maintains body health and has healing effect on adult diseases. Reactive oxygen or free radical inflicts oxidative damage to bio-molecules, leading to aging and various ailments. And active hydrogen, which eliminates free radicals, is created at cathode in the process of electrolysis. He also noted that electrolyzed reduced water has high pH, low dissolved oxygen (DO), high dissolved hydrogen (DH) and negative oxidation reduction potential (ORP). The paper was published by a globally renowned science journal, BBRC. Processor Lee Kyu-jae at Yonsei Medical School announced at the meeting of the Korean Society for Biochemistry & Molecular Biology on October 29, 2004 that his one-year research found Biontech's BTM-700 was excellent at eliminating free radicals .much of them are created. But SOD gets weaken with aging.



Usage of Alkaline & Acidic Water

Features of Alkaline Water

- Cooking rice : When rice is kept in alkaline water for 30~60 minutes before cooking, the steamed rice glitters with moist and has fresh taste. It could be freshly preserved and does not easily go rotten even in summer.
- Alkaline water eliminates bitter taste of coffee, puckery taste of black and green tea, while boosting the subtle taste and scent that are unique to tea.
- Drinking one or two cups of alkaline water upon excessive drinking, a hangover, empty stomach or before sleeping is very good for health.
- When vegetables and fruits are cleaned with alkaline water, they could be preserved freshly for a long time.
- When meat and vegetables with odor are kept in alkaline water for about 20~30 minutes before cooking, the odor is lessened and their texture gets tender and tasty.
- Mixing powdered milk in alkaline water is good for babies.
- Alkaline water eliminates the pungent taste of bamboo shoot, herbs, taro and brown seaweed, and boosts their original tastes when used in cooking. In particular, the alkaline water gets rid of fish's smell and enhances its taste.
- When seeds are kept in alkaline water before sowing, the rate of sprouting is increased. The water also helps planting, cutting as well as grafting.

Features of Acidic water

- It is good to use acidic water during bath. Since the acidic water is astringent, it makes skin tender and elastic (skin is weak acidic). If you use acidic water to rinse after washing hair with soap, it neutralizes the base of the soap, making the hair glitter. The acidic water could be used after shaving as the replacement of skin lotion, because it works as a sterilizer and astringent.
- When a flower is kept in acidic water with its stalk's cut end dipped in it, it could be freshly preserved for a longer time.
- Acidic water's sterilizing, odor-removing and bleaching functions easily wash out the dirt on kitchen tools and sterilize them by washing them with acidic water and it also sterilizes kitchen board and dishes, when washing them with the water. Dish towels that are damp most of the time serve as the hotbed of molds. Washing the towels in acidic water eliminates molds and bad order, making your kitchen clean.
- When you brush your teeth with acidic water, its sterilizing power makes the inside the mouth clean.
- When bathing your pet with acidic water, it makes the pet's hair glittering and tidy. It also prevents the hair from easily falling off.

Biontech & Products

Features of Biontech Products

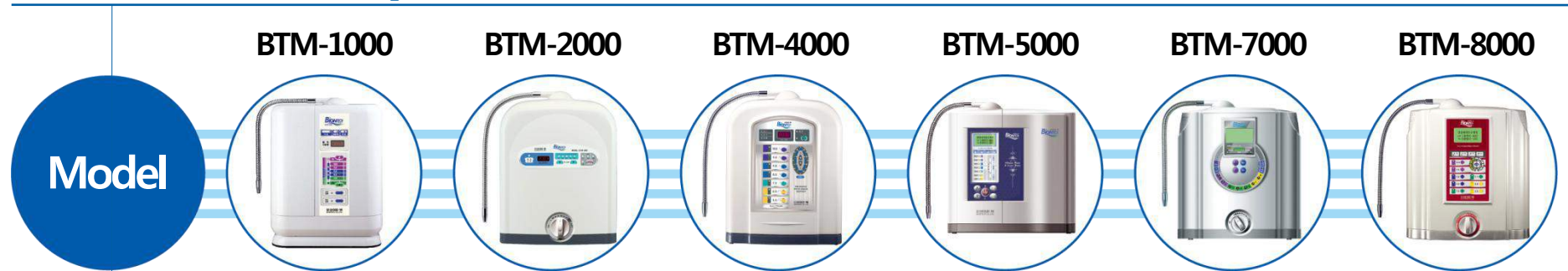
- Automatic cleaning of electrodes cell based on self-diagnosis makes the device life longer and enables the production of highly pure ion water.
- pH control function of eight steps widens a scope of pH that users could choose according to their needs.
- Alarm set off based on self-diagnosis, and displaying of "Er" indicating malfunction allows correct diagnosis of the device status.
- Indication of operation status through voice or text display according to a user's choice.
- Automatic control of pH concentration based on self-diagnosis regardless of the inflow rate.
- ON/OFF of inflowing-water detection function boosts convenience for users.
- A separate mineral input slot in filters allows users to intake the ion water according to their use.
- A wide-range of locations could be chosen for installation, because the product could easily be hung on the wall or placed on the ground.
- A six-step filter enhances purification capacity.
- Complete sealing of alkaline and acidic water produces highly pure ion.
- Clean water-choice function enables to acquire highly pure clean water.
- With the adoption of the new material, platinum for coating electrode realizes high purity of ion and minimization of water cluster at 51.5Hz.
- Excessive power-blocking device increases life safety and accommodation of special water.
- Easy filter replacement boosts convenience for users.
- Filter replacement timing is calculated based on the amount of water used, and notified by a sound or text.
- Indicator of elimination capacity of free radicals, which is the cause of cell mutation and aging. Oxidation reduction potential of -500mv.
- Dissolved oxygen is ionized, leading to strong dissolving power and smaller water molecule and surface tension.
- Turning blood and body fluid into weak alkali, hence helping to maintain health and prevent diseases.
- Occurrence of action potential in nerve fiber provokes hypothalamic pituitary of the brain, thus activating automatic nerve system, hormone system and immune system.

Function Comparison of Different Kinds of Water

Type	Water Size	Oxygen	Mineral	Sterilizing Power	Absorbing Power	Medical Benefit
Boiled Water	111.6Hz	No	Yes	Good	Not very good	No
Water taken from a mountain	100Hz	Yes	Small amount	Not at all	Some	No
Purified water (reverse osmosis method)	150Hz	Yes	Not at all	Small amount	Some	No
Alkaline Water	54Hz	Rich	Rich	Excellent	Excellent	Excellent (Approved as a medical device)



Water Ionizer Specifications



	BTM-1000	BTM-2000	BTM-4000	BTM-5000	BTM-7000	BTM-8000
Product name	Medical substance producer	Medical substance producer	Medical substance producer	Medical substance producer	Medical substance producer	Medical substance producer
Rated voltage	AC 220V 50~60Hz	AC 220V 50~60Hz	AC 220V 50~60Hz	AC 220V 50~60Hz	AC 220V 50~60Hz	AC 220V 50~60Hz
Water supply method	Direct link to tap water	Direct link to tap water	Direct link to tap water	Direct link to tap water	Direct link to tap water	Direct link to tap water
Body(Size)	280x360x135(WxHxD)m/m	280x360x135(WxHxD)m/m	280x360x135(WxHxD)m/m	350x362x140(WxHxD)m/m	320x340x140(WxHxD)m/m	320x340x140(WxHxD)m/m
(Weight)	About 5.5kg	About 4.5kg	About 5.5kg	About 6.5kg	About 6.5kg	About 6.5kg
Water pressure available	0.7~6.0kg/cm ²	0.7~6.0kg/cm ²	0.7~6.0kg/cm ²	0.7~6.0kg/cm ²	0.7~6.0kg/cm ²	0.7~6.0kg/cm ²
Temperature available	5℃~35℃	5℃~35℃	5℃~35℃	5℃~35℃	5℃~35℃	5℃~35℃
Overheat-prevention device	Two built-in temp. Sensor(auto reset)	Two built-in temp. Sensor(auto reset)	Two built-in temp. Sensor(auto reset)	Two built-in temp. Sensor(auto reset)	Two built-in temp. Sensor(auto reset)	Two built-in temp. Sensor(auto reset)
Electrodes (Electrolysis method)	Continuous	Continuous	Continuous	Continuous	Continuous	Continuous
cell (Creation capacity)	1.5ℓ/min. (at water pressure of 2kgf/cm ²) 'included alkaline water and acidic water'	1.5ℓ/min. (at water pressure of 2kgf/cm ²) 'included alkaline water and acidic water'	1.5ℓ/min. (at water pressure of 2kgf/cm ²) 'included alkaline water and acidic water'	1.5ℓ/min. (at water pressure of 2kgf/cm ²) 'included alkaline water and acidic water'	1.5ℓ/min. (at water pressure of 2kgf/cm ²) 'included alkaline water and acidic water'	1.5ℓ/min. (at water pressure of 2kgf/cm ²) 'included alkaline water and acidic water'
(Electrolysis stage)	5 steps for alkaline water/ 1 step for acidic water	5 steps for alkaline water/ 1 step for acidic water	5 steps for alkaline water/ 2 step for acidic water	5 steps for alkaline water/ 2 step for acidic water	5 steps for alkaline water/ 2 step for acidic water	5 steps for alkaline water/ 2 step for acidic water
(Electrolytic cleaning)	Auto washing (time: about 30 sec., amount of supplied water: about 0.8ℓ)	Auto washing (time: about 30 sec., amount of supplied water: about 0.8ℓ)	Auto washing (time: about 30 sec., amount of supplied water: about 0.8ℓ)	Auto washing (time: about 30 sec., amount of supplied water: about 0.8ℓ)	Auto washing (time: about 30 sec., amount of supplied water: about 0.8ℓ)	Auto washing (time: about 30 sec., amount of supplied water: about 0.8ℓ)
(Electrode)	Platinized titanium	Platinized titanium	Platinized titanium	Platinized titanium	Platinized titanium	Platinized titanium
Purification(Filter replacement)	Cartridge method	Cartridge method	Cartridge method	Cartridge method(2 stages)	Cartridge method(2 stages)	Cartridge method(2 stages)
device (Filter life)	About 13 months (when 10ℓ of water is provided a day)	About 13 months (when 10ℓ of water is provided a day)	About 13 months (when 10ℓ of water is provided a day)	the 1st for about 10 months, the 2nd for about 13 months (when 10ℓ of water is provided a day)	the 1st for about 10 months, the 2nd for about 13 months (when 10ℓ of water is provided a day)	the 1st for about 10 months, the 2nd for about 13 months (when 10ℓ of water is provided a day)
(Life display)	FND figure display	FND figure display	FND figure display	LCD text display	LCD text display	LCD text display
(Filter material)	Nonwoven, pp filter, GAC, silver-added active carbon, calcium sulfite, block carbon, UF membrane filter (Optional)	Nonwoven, pp filter, GAC, silver-added active carbon, calcium sulfite, block carbon, UF membrane filter (Optional)	Nonwoven, pp filter, GAC, silver-added active carbon, calcium sulfite, block carbon, UF membrane filter (Optional)	Nonwoven, pp filter, GAC, silver-added active carbon, calcium sulfite, block carbon, UF membrane filter (Optional)	Nonwoven, pp filter, GAC, silver-added active carbon, calcium sulfite, block carbon, UF membrane filter (Optional)	Nonwoven, pp filter, GAC, silver-added active carbon, calcium sulfite, block carbon, UF membrane filter (Optional)
Operation indication	Sound	Sound	Sound	Sound and text display	Sound and text display	Sound and text display
Water inflow control function	Installed as a supplementary	Installed as a supplementary	Installed as a supplementary	Installed as a supplementary	Installed as a supplementary	Installed as a supplementary
Medical Device Item Approval	KFDA No. 889	KFDA No. 889	KFDA No. 889	KFDA No. 889	KFDA No. 889	KFDA No. 889
Item Approval	No. 00-332	No. 00-333	No. 00-434	No. 01-317	No. 02-401	No. 02-782
International Certificates						

Water Ionizer Specifications

Model

BTM-900



BTM-700



BTM-300N



BTM-600N



BTM-400N



Product name	Medical substance producer	Medical substance producer	Medical substance producer	Medical substance producer	Medical substance producer
Rated voltage	AC 220V 50~60Hz	AC 220V 50~60Hz	AC 220V 50~60Hz	AC 220V 50~60Hz	AC 220V 50~60Hz
Water supply method	Direct link to tap water	Direct link to tap water	Direct link to tap water	Direct link to tap water	Direct link to tap water
Body(Size)	340x350x140(WxHxD)m/m	320x350x140(WxHxD)m/m	280x340x140(WxHxD)m/m	360x350x140(WxHxD)m/m	320x340x140(WxHxD)m/m
(Weight)	About 6.5kg	About 6.5kg	About 6.5kg	About 6.5kg	About 6.5kg
Water pressure available	0.7~6.0kg/cm ²	0.7~6.0kg/cm ²	0.7~6.0kg/cm ²	0.7~6.0kg/cm ²	0.7~6.0kg/cm ²
Temperature available	5℃~35℃	5℃~35℃	5℃~35℃	5℃~35℃	5℃~35℃
Overheat-prevention device	Two built-in temp. Sensor(auto reset)	Two built-in temp. Sensor(auto reset)	Two built-in temp. Sensor(auto reset)	Two built-in temp. Sensor(auto reset)	Two built-in temp. Sensor(auto reset)
Electrodes (Electrolysis method)	Continuous	Continuous	Continuous	Continuous	Continuous
cell (Creation capacity)	1.5ℓ/min. (at water pressure of 2kgf/cm ²) 'included alkaline water and acidic water'	1.5ℓ/min. (at water pressure of 2kgf/cm ²) 'included alkaline water and acidic water'	1.5ℓ/min. (at water pressure of 2kgf/cm ²) 'included alkaline water and acidic water'	1.5ℓ/min. (at water pressure of 2kgf/cm ²) 'included alkaline water and acidic water'	1.5ℓ/min. (at water pressure of 2kgf/cm ²) 'included alkaline water and acidic water'
(Electrolysis stage)	5 steps for alkaline water/ 1 step for acidic water	5 steps for alkaline water/ 2 step for acidic water	5 steps for alkaline water/ 2 step for acidic water	5 steps for alkaline water/ 2 step for acidic water	5 steps for alkaline water/ 2 step for acidic water
(Electrolytic cleaning)	Auto washing (time: about 30 sec., amount of supplied water: about 0.8ℓ)	Auto washing (time: about 30 sec., amount of supplied water: about 0.8ℓ)	Auto washing (time: about 30 sec., amount of supplied water: about 0.8ℓ)	Auto washing (time: about 30 sec., amount of supplied water: about 0.8ℓ)	Auto washing (time: about 30 sec., amount of supplied water: about 0.8ℓ)
(Electrode)	Platinized titanium	Platinized titanium	Platinized titanium	Platinized titanium	Platinized titanium
Purification(Filter replacement)	Cartridge method	Cartridge method(2 stages)	Cartridge method(2 stages)	Cartridge method(2 stages)	Cartridge method(2 stages)
device (Filter life)	the 1st for about 10 months, the 2nd for about 13 months (when 10ℓ of water is provided a day)	the 1st for about 10 months, the 2nd for about 13 months (when 10ℓ of water is provided a day)	the 1st for about 10 months, the 2nd for about 13 months (when 10ℓ of water is provided a day)	the 1st for about 10 months, the 2nd for about 13 months (when 10ℓ of water is provided a day)	the 1st for about 10 months, the 2nd for about 13 months (when 10ℓ of water is provided a day)
(Life display)	FND figure display	LCD text display	FND figure display	LCD text display	LCD text display
(Filter material)	Nonwoven, pp filter, GAC, silver-added active carbon, calcium sulfite, block carbon, U/F membrane filter (Optional)	Nonwoven, pp filter, GAC, silver-added active carbon, calcium sulfite, block carbon, U/F membrane filter (Optional)	Nonwoven, pp filter, GAC, silver-added active carbon, calcium sulfite, block carbon, U/F membrane filter (Optional)	Nonwoven, pp filter, GAC, silver-added active carbon, calcium sulfite, block carbon, U/F membrane filter (Optional)	Nonwoven, pp filter, GAC, silver-added active carbon, calcium sulfite, block carbon, U/F membrane filter (Optional)
Operation indication	Sound	Sound and text display	Sound	Sound and text display	Sound and text display
Water inflow control function	Installed on a body	Installed on a body	Installed on a body	Installed on a body	Installed on a body
Medical Device Item Approval	KFDA No. 889	KFDA No. 889	KFDA No. 889	KFDA No. 889	KFDA No. 889
Item Approval	No. 03-057	No. 03-448	No. 03-483	No. 03-618	No. 04-865
International Certificates		 	  	 	

Water Ionizer Specifications



	BIONTECH-500N	BTM-102G	BTM-200N	BTM-100N	BTM-105U	BTM-505N
Product name	Medical substance producer	Medical substance producer	Medical substance producer	Medical substance producer	Medical substance producer	Medical substance producer
Rated voltage	AC 220V 50~60Hz	AC 220V 50~60Hz	AC 220V 50~60Hz	AC 220V 50~60Hz	AC 220V 50~60Hz	AC 220V 50~60Hz
Water supply method	Direct link to tap water	Direct link to tap water	Direct link to tap water	Direct link to tap water	Direct link to tap water	Direct link to tap water
Body(Size)	320x340x140(WxHxD)m/m	350x360x150(WxHxD)m/m	280x360x135(WxHxD)m/m	280x340x140(WxHxD)m/m	320x340x140(WxHxD)m/m	320x340x140(WxHxD)m/m
(Weight)	About 6.5kg	About 4.5kg	About 5.5kg	About 6.5kg	About 6.5kg	About 6.5kg
Water pressure available	0.7~6.0kg/cm ²	0.7~6.0kg/cm ²	0.7~6.0kg/cm ²	0.7~6.0kg/cm ²	0.7~6.0kg/cm ²	0.7~6.0kg/cm ²
Temperature available	5℃~35℃	5℃~35℃	5℃~35℃	5℃~35℃	5℃~35℃	5℃~35℃
Overheat-prevention device	Two built-in temp. Sensor(auto reset)	Two built-in temp. Sensor(auto reset)	Two built-in temp. Sensor(auto reset)	Two built-in temp. Sensor(auto reset)	Two built-in temp. Sensor(auto reset)	Two built-in temp. Sensor(auto reset)
Electrodes (Electrolysis method)	Continuous	Continuous	Continuous	Continuous	Continuous	Continuous
cell (Creation capacity)	1.5ℓ/min. (at water pressure of 2kgf/cm ²) 'included alkaline water and acidic water'	1.5ℓ/min. (at water pressure of 2kgf/cm ²) 'included alkaline water and acidic water'	1.5ℓ/min. (at water pressure of 2kgf/cm ²) 'included alkaline water and acidic water'	1.5ℓ/min. (at water pressure of 2kgf/cm ²) 'included alkaline water and acidic water'	1.5ℓ/min. (at water pressure of 2kgf/cm ²) 'included alkaline water and acidic water'	1.5ℓ/min. (at water pressure of 2kgf/cm ²) 'included alkaline water and acidic water'
(Electrolysis stage)	5 steps for alkaline water/2 step for acidic water	5 steps for alkaline water/ 2 step for acidic water	5 steps for alkaline water/ 1 step for acidic water	5 steps for alkaline water/ 2 step for acidic water	5 steps for alkaline water/ 2 step for acidic water	5 steps for alkaline water/ 2 step for acidic water
(Electrolytic cleaning)	Auto washing (time: about 30 sec., amount of supplied water: about 0.8ℓ)	Auto washing (time: about 30 sec., amount of supplied water: about 0.8ℓ)	Auto washing (time: about 30 sec., amount of supplied water: about 0.8ℓ)	Auto washing (time: about 30 sec., amount of supplied water: about 0.8ℓ)	Auto washing (time: about 30 sec., amount of supplied water: about 0.8ℓ)	Auto washing (time: about 30 sec., amount of supplied water: about 0.8ℓ)
(Electrode)	Platinized titanium	Platinized titanium	Platinized titanium	Platinized titanium	Platinized titanium	Platinized titanium
Purification(Filter replacement)	Cartridge method (2 stages)	Cartridge method	Cartridge method	Cartridge method(2 stages)	Cartridge method(2 stages)	Cartridge method(2 stages)
device (Filter life)	the 1st for about 10 months, the 2nd for about 13 months (when 10ℓ of water is provided a day)	About 13 months (when 10ℓ of water is provided a day)	About 13 months (when 10ℓ of water is provided a day)	About 13 months (when 10ℓ of water is provided a day)	the 1st for about 10 months, the 2nd for about 13 months (when 10ℓ of water is provided a day)	the 1st for about 10 months, the 2nd for about 13 months (when 10ℓ of water is provided a day)
(Life display)	LCD text display	LCD text display	FND figure display	FND figure display	FND figure display	FND figure display
(Filter material)	Nonwoven, pp filter, GAC, silver-added active carbon, calcium sulfite, block carbon, U/F membrane filter (Optional)	Nonwoven, pp filter, GAC, silver-added active carbon, calcium sulfite, block carbon, U/F membrane filter (Optional)	Nonwoven, pp filter, GAC, silver-added active carbon, calcium sulfite, block carbon, U/F membrane filter (Optional)	Nonwoven, pp filter, GAC, silver-added active carbon, calcium sulfite, block carbon, U/F membrane filter (Optional)	Nonwoven, pp filter, GAC, silver-added active carbon, calcium sulfite, block carbon, U/F membrane filter (Optional)	Nonwoven, pp filter, GAC, silver-added active carbon, calcium sulfite, block carbon, U/F membrane filter (Optional)
Operation indication	Sound and text display	Sound and text display	Sound	Sound	Sound and text display	Sound and text display
Water inflow control function	Installed on a body	Installed as a supplementary	Installed as a supplementary	Installed as a supplementary	Installed as a supplementary	Installed as a supplementary
Medical Device Item Approval	KFDA No. 889	KFDA No. 889	KFDA No. 889	KFDA No. 889	KFDA No. 889	KFDA No. 889
Item Approval	No. 04-1039	No. 04-1031	No. 05-217	No. 05-217	No. 05-872	No. 07-171
International Certificates						

Water Ionizer Specifications

Specifications of Ionizer
for Super Oxide Water

Specifications of
Air Purifier



Model	BTM-102F	BTM-101S	PRIME GOLD
Product name	Medical substance producer	Medical substance producer	Medical substance producer
Rated voltage	AC 220V 50~60Hz	AC 220V 50~60Hz	AC 220V 50~60Hz
Water supply method	Direct link to tap water	Direct link to tap water	Direct link to tap water
Body(Size)	320x340x140(WxHxD)m/m	320x340x140(WxHxD)m/m	340x350x140(WxHxD)m/m
(Weight)	About 6.5kg	About 4.5kg	About 5.5kg
Water pressure available	0.7~6.0kg/cm ²	0.7~6.0kg/cm ²	0.7~6.0kg/cm ²
Temperature available	5°C~35°C	5°C~35°C	5°C~35°C
Overheat-prevention device	Two built-in temp. Sensor(auto reset)	Two built-in temp. Sensor(auto reset)	Two built-in temp. Sensor(auto reset)
Electrodes (Electrolysis method)	Continuous	Continuous	Continuous
cell (Creation capacity)	1.5ℓ/min. (at water pressure of 2kgf/cm ²) *included alkaline water and acidic water	1.5ℓ/min. (at water pressure of 2kgf/cm ²) *included alkaline water and acidic water	1.5ℓ/min. (at water pressure of 2kgf/cm ²) *included alkaline water and acidic water
(Electrolysis stage)	5 steps for alkaline water/ 2 step for acidic water	5 steps for alkaline water/ 2 step for acidic water	5 steps for alkaline water/ 1 step for acidic water
(Electrolytic cleaning)	Auto washing (time: about 30 sec., amount of supplied water: about 0.8ℓ)	Auto washing (time: about 30 sec., amount of supplied water: about 0.8ℓ)	Auto washing (time: about 30 sec., amount of supplied water: about 0.8ℓ)
(Electrode)	Platinized titanium	Platinized titanium	Platinized titanium
Purification(Filter replacement)	Cartridge method (2 stages)	Cartridge method (2 stages)	Cartridge method (2 stages)
device (Filter life)	the 1st for about 10 months, the 2nd for about 13 months (when 10ℓ of water is provided a day)	About 13 months (when 10ℓ of water is provided a day)	About 13 months (when 10ℓ of water is provided a day)
(Life display)	Reflector	LCD text display	FND figure display
(Filter material)	Nonwoven, pp filter, GAC, silver-added active carbon, calcium sulfite, block carbon, U/F membrane filter (Optional)	Nonwoven, pp filter, GAC, silver-added active carbon, calcium sulfite, block carbon, U/F membrane filter (Optional)	Nonwoven, pp filter, GAC, silver-added active carbon, calcium sulfite, block carbon, U/F membrane filter (Optional)
Operation indication	Sound	Sound and text display	Sound
Water inflow control function	Installed on a body	Installed as a supplementary	Installed as a supplementary
Medical Device Item Approval	KFDA No. 889	KFDA No. 889	KFDA No. 889
Item Approval	No. 07-662	No. 07-662	No. 08-868
International Certificates			

Model	BTM-3000	BTA-101	BTA-102	
Method	Reservoir type	Voltage	AC220V 60Hz	
Rated Voltage	AC220V 50~80Hz	Power consumption	Silent about 5.5W Auto (Silent + Air Blow) about 10W Air Blow about 5W	
Rated Input Voltage	Voltage 0.5A		Air volume	about 1.1m ³ /min
Rated power consumption (if strong electrolyzed water is created)	45W(90W)		Discharge voltage	+4,100V, -4,100V
Electrolysis hour	Standard about 20 min./strong electrolyzed water about 10 min./drinking water	Capacity	For rooms up to 60 square meters (The space could change according to indoor and outdoor condition. Rooms between 20 - 40 square meters are recommended.)	
Supply amount	Acidic water:2.0ℓ, alkaline water:2.0ℓ		Size	290(W)X240(H)X400(D)m/m
Strong electrolyzed water	pH 2.7 or low, oxidation potential +1100mv or above		Weight	About 4kg
(If table salt is added) Super oxide water, reducing water	pH 11.3 or above, reduction potential 650mv or below	Accessories	About 4kg	
Size	366X290X200(HxWxD)m/m	Electrical Appliances Safety	User manual and warranty certificate (electric cord about 2m)	
Weight About	3Kg	Certification No.	HH07486-3001A	
Accessories	Two 2ℓ polyester container one measuring spoon, 1st reagent (HDA reagent) 1EA, 2nd reagent (HDA reagent) 1EA	International Certificates		
Medical Device Item Approval	KFDA No.889			
Item Approval	No.00-334			

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