



Micro-Cluster Ionized Purified Water (Kangen)

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 feeling and mysteriousness that you have never encountered before.



BIONTECH

Specialized ion water Device Manufacturer

Why Biontech ?

Special & Good Point

1- Biontech, a special company of water ionizer walking a single path for 23 years after 1936, secures 23 kinds of models and own production plant capable of producing 20 thousands of set per month, and as a frontier of water ionizer, is leading the wide spread of such products with various plans so that more people can experience it.

2- Biontech leads the order of distribution system by managing branches and agencies on the principle of reasonable pricing policy.

3- Relying on Biontech's own product reputation, products are delivered to large companies like LG Electronics, Samsung Electronics, E-mart, Homever and ET Land.

4- Solely in the Industry, Biontech operates 50 nationwide direct A/S service network, realizing lifelong customer service so that customers can use our product with no difficulties.

5- Highly reduction rate (ORP=-500mV) comparing to competitors is advantageous.

*What is ORP (Oxidization reduction potential)? ORP Is the index showing the rate of oxidizer ageing materials to reducer with the contrary function; as more reducers with reduction process are contained, higher (-) value is given.

6- Based on clean two-way method, the inlets of alkaline ionized water and acid ionized water are separated to protect such types of Ionized water from being mixed and eliminating even the unique alkali smell.

7- By adopting 3 levels of "low-standard-high" system to prevent pH from being changed according to different flow rate of individual houses in order that a user can adjust it, Biontech water ionizer may be most safely used.

8- Using the self-diagnose function relying on the patented PWM control method (No.66229), pH is properly and automatically controlled irrespective of flow supply, generating highly pure ionized water at all times.

9- In order that even the aged, housewives or children can easily use our products, Biontech introduced voice and text information alert at the time of filter exchange or errors; In addition to it, the patented automatic information function showing filter exchange service and contact number increases the convenience.

10- By constantly improving the brand reputation through media advertisements and extended sales agencies for 10 years and allying with E-mart and Samsung Card, Bion Tech endeavors to provide better benefits to customers.

September , 2008

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



Biontech & Alkaline water

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

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, Geumjeong-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 Hankook 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 Hankook 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 (Ariau)
- 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 INNOBIZ
- 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

History



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.



Water & Health

"80% A Modern Disease Are Related With Water" (WHO)

Water accounts for 70% of our body!

No organism can live without water. Drinking water that we intake contains kinds of nutrients including, minerals, not just pure water molecule (H₂O). The reason why unknown diseases that have ever found in the past appear is probably because we gradually lack the necessary nutrients that one must ingest through water or food.

What is ionized water?

Ionized water is obtained by applying electric strength to ordinary water such as tap water or underground water and also called, electrolyzed water or electrolyzed-reduced water. Minerals absorbed in water is divided into (+) and (-) since they contain electric properties. At the moment, water containing minerals with (+) property such as calcium, magnesium, potassium and sodium is called 'alkaline ionized water' while water containing minerals with (-) property such as chloride, sulfur and phosphorus is called 'acid ionized water'. Alkaline ionized water is normally used as drinking water while add ionized water is used for washing face (skin's pH is 5.5). Bion Tech Water Ionizer producing alkaline water ionizer is prescribed as a medical material generator and permitted as a household medical equipment by KFID(No.889).

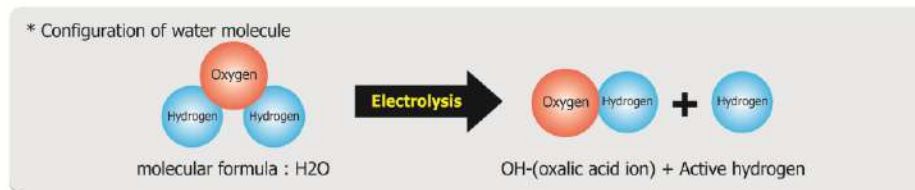


Our body maintains weak alkalinity about pH 7.2 - 7.45

pH's an acidity indicator showing hydrogen ion concentration in solution.

For instance, pH 1 solution means it contains 0.1 ratio of hydrogen ion while pH 2 solution means 0.01, so it can be interpreted that lower pH is stronger acidity with more hydrogen ion.

As seen in the figure below, if water molecule is electrolyzed, it is divided into hydrogen ion and hydroxyl ion, during which the former becomes active hydrogen in atom status, functionally neutralizing as it is combined with excessive active oxygen in our body. In addition, our body cell is supplied with oxygen through circulation and discharges body wastes; among them, acid body wastes is neutralized if being combined with inorganic alkali minerals and easily discharged, protecting our body from being acidified due to accumulated acid wastes.



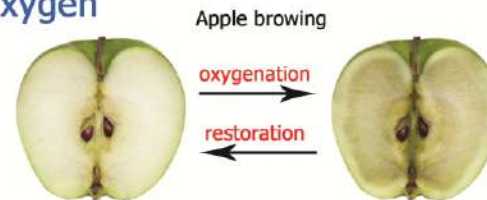
* **Active hydrogen** : hydrogen likely to chemically react when exposing to UV rays or being discharged. It has a strong power to reduce oxide. It neutralizes oxide to water by reading to active oxygen.

* **Active oxygen** : oxygen with stronger power to read to other materials, unlike ordinary oxygen. As oxygen in atom or quasi-stable status, it more strongly oxidizes other materials. It functionally oxidizes viruses or bacilli penetrating into our body but it also causes ageing, for instance, attacking healthy cells if we have it excessively.

Oxidation losing oxygen vs. Reduction getting back oxygen

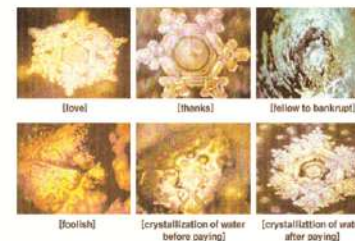
In the side of hydrogen ion, 'oxidation is to combine with oxygen and 'reduction' is to be separated from oxygen.

Since hydrogen ion is unstable in losing electron, it may be thought as a burglar to take oxygen ion. In case lots of hydrogen ions exist in blood (acidity), it causes oxidation, leaving hydrogen ion only as oxygen is lost from cells. On the other hand, if alkali ionized water is absorbed into our body, oxidized cells receiving hydroxyl ion are restored, so called, reduction .



Water is alive

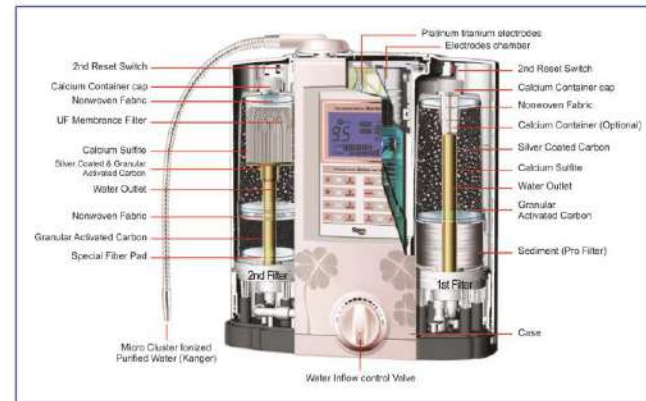
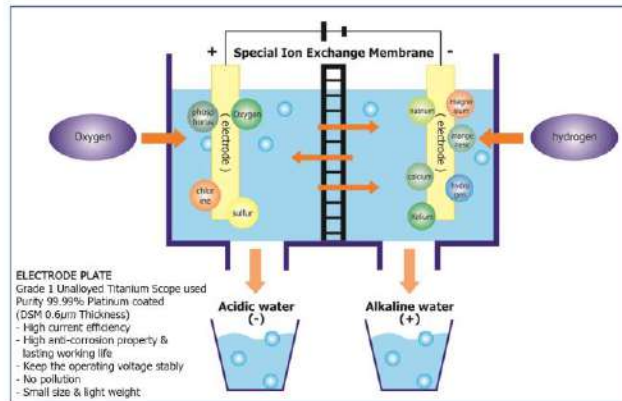
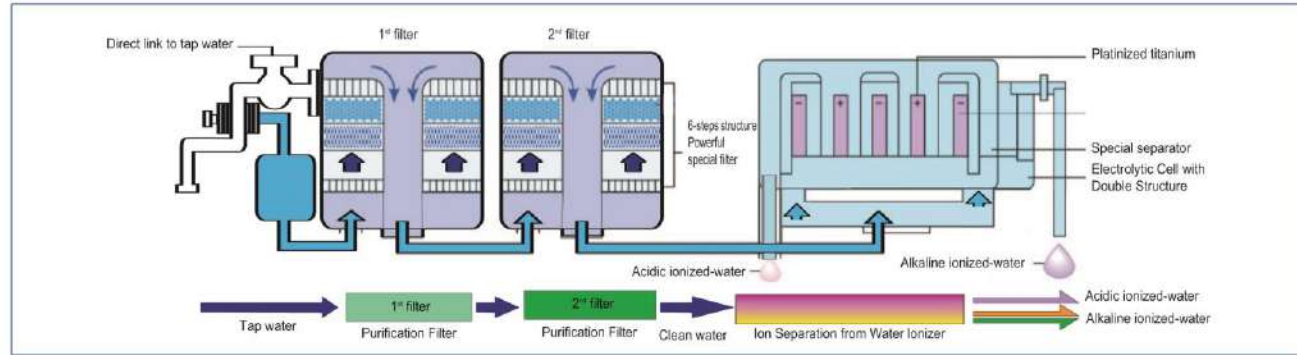
Dr. Masaru Emoto observed in 'Water' series that even water changes its crystal as human feeling. The figure below shows the crystal shape of water charged when being bottled and added with various words. Snow crystal is hexagonal. As we can see that in the world's famous long-life villages, they drink snow-melt water, hexagonal crystal of water can make our condition to the most. crystallization change according to a character.



Micro Cluster Ionized Purified Water (Kangen) & Health

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^{+} , 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?

Features of Alkaline Water :

- Alkaline water is rapidly absorbed and spread within organs` cells thanks to its small water size (cluster)
- Alkaline water ionized 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.

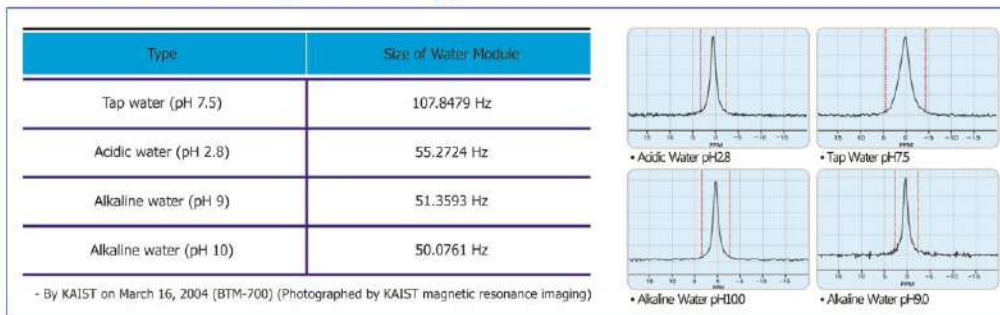
Features of Acidic Water :

- 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



What is pH?

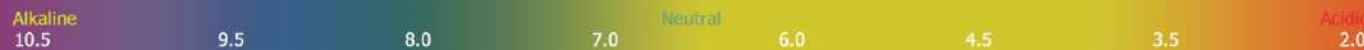
What is pH (Power of Hydrogen)?

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



Creation

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.

Alkaline water and Reactive oxygen

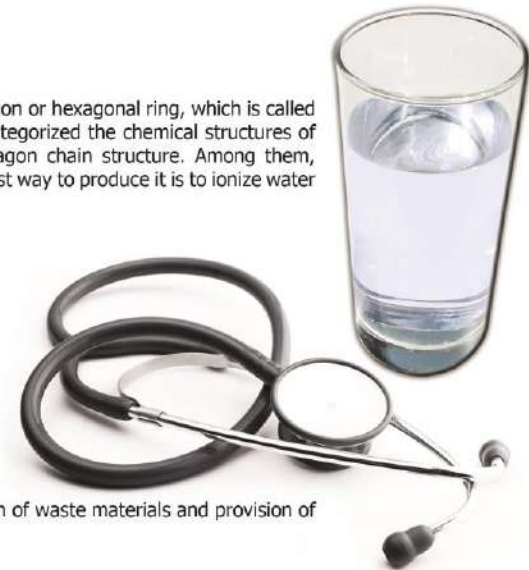
Alkaline water and Oxygen free radicals

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 weakened 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. Professor 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 weakened with aging.



BIONTECH Water Ionizer provides you with the healthiest Alkaline Ionized water with its best technology.



Automatic Adjustment to Optimum pH Level
The quantity of water supplied to each household may differ depending on the area and conditions. Although the water is consumed with selection of the same pH level, the pH concentration may increase or decrease. Biontech Ionizer produces high-purity ionized water with automatic adjustment for optimum pH through self-diagnosis regardless of the change in supplied water flow based on the new and unique technology of Biontech.



Artificial Intelligence Sensor System
The self-diagnosis system based on RISC semiconductor circuit notifies the error, which is caused by an incorrect action of the operation function, in the form of a message on the LCD. As such, diagnosis and problem solving has become convenient and easy. Also, it is equipped with a safety system that shuts down the electric current through self-diagnosis in the event of excessive current.



More than -500mV of Maximum Reduction Power
The core part of the Electrolysis Ionized Water System is in the electrolytic bath. With use of platinum-titanium material a cutting edge advanced material produced by the new and unique technology of Biontech Ionizer the cluster size of water is minimized. Biontech Ionizer uses five electrodes rather than 4 and takes pride in 'more than -500mV of maximum reduction power'. Also, the water is separately supplied to both poles and electrolysis efficiency has been enhanced.



Advanced Silver-Nano Special Filter
Silver was added to the activated carbon, the core material of the filter, to enhance sterilization power to suppress bacterial growth, and cleaner more purified ionized water is produced through the 2-layer 12-step excellent purification process.



Installation of Main Body Single-type On/Off Ceramic Valve
The On/Off valve was installed into the product itself, making it convenient to turn On/Off. The most advanced ceramic material was used and this can be used semi-permanently. Also, the water pressure adjustment function provides added convenience.



Automatic Self-Cleaning and Drainage Functions
Automatic self-cleaning is performed at every 10 liters of water flow to maintain the electrolysis function. As self-cleaning is performed during stoppage (blocking of water inflow), use of this system is convenient and the cleaning effect is excellent. When self-cleaning is completed, the drainage is automatically performed.



Subdivision of pH Steps into 8 Steps
Biontech Ionizer the pH steps into 8 steps consisting of 5 Alkaline Ionized Water steps, 2 Acidic Ionized Water steps, and purification. The selection range was expanded for various uses depending on the purpose, as well as for persons such as first time drinkers, babies and seniors who have weaker digestive systems.



Filter Usage and Replacement Period Display
The flow of water is accurately detected by the flow-detection sensor system digital circuit, and filter life is continuously displayed on the LCD. Filter replacement period is notified through audio announcement and the phone numbers of filter replacement service providers are also illustrated.



One-touch Selection Method
Convenient operation of touch-screen technology, represented as icons for one-touch selection of the desired ionized water, on the control panel of the main body.



Water Supply adjustment valve
With the ON/OFF Ceramic Valve installed on the front of the unit, a user can turn it on and off comfortably. Users can also control the input water pressure through this ON/OFF Ceramic Valve.



Recognition System approving Genuine Filter
On installation the recognition system for approves the genuine filter in Biontech Ionizer, users could know that the 1st time error due to careless replacement and take follow-up operations.

Features



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.

Applications of Alkali Water

Alkali ionized water changes even the face of family members

To maintain our body pH weak alkali, alkali ionized water mitigating oxidization due to acid food and environmental pollution is the optimal choice.

Alkali ionized water

- is the water full of active hydrogen neutralizing active oxygen that is not useful in our body.
- is quickly absorbed and activated, helping the operations of cell, because the duster size is similar to or smaller than somatic cell.
- supplies necessary minerals such as calcium, potassium, magnesium and sodium, all of which are filtrated in normal reverse osmosis water purifiers, speeding up metabolism.
- maintaining hexagon-shaped clustered water (2-4 structure) Indicating the best condition of water and being absorbed, performing the most efficient functions of water.
- having the same effect of having healthy alkali food.



Useful tips using alkali ionized water !

Alkaline Ionized water Usage

pH 7.5

Recommended as water for early drinking or dissolving powdered milk

pH 8.5

Recommended as water for ordinary drinking

pH 9.0

Recommended as water for drinking or cooking

pH 9.5

Recommended as water for medical use or cooking

pH 10.0

Use it for special use or cooking. If using it for drinking water, need to consult a doctor.

Useful tips using alkali ionized water !



Delicious boiled rice

When preparing boiled rice, wash and soak raw rice with alkali water (pH 9) or purified water and adjust water level. Then, water is quickly absorbed, saving the time of boiling rice and preventing the rice from being decayed (water level needs slightly reducing).



Preparing delicious half-boiled egg

The reason why soft-boiled egg is good for our health is because well-done egg yolk tastes unpleasant as its acid cholesterol is fully cooked. To half-boil egg, place egg into boiling alkali water and turn it off. In about 5 minutes, delicious soft egg will be served.



Feeling good flavor of barley tea in live water

If water is boiled, it may not function as an electrolyte as the minerals in it are deactivated. In hot summer, boiling a kettle of water makes the air in the house hotter and is a bothersome job. However, just placing a pack of barley tea in alkali ionized water does not need boiling, serving good flavor thanks to its strong elution, saving fuel and electric rate and even reducing housework.



Clean vegetable and fruit

Fruits and vegetables can be fresh and safely enjoyed if they are washed with acid water first, rinsed with alkali water and stored in a fridge.



Deep taste of soup and dish from the bones of the four legs of a cow

If using alkali water for soaking-out soup or stewing the bones of the four legs of a cow or thick beef soup served with rice, it may help feel deep taste and require less quantity of ingredients because of small water cluster size.



Clear color of vegetables even after parboiling

Green vegetables may look glossy if quickly parboiled with alkali water without a lid (no need of salt or soda). White vegetable without resin can be served in delicious and good taste when it is cooked with a lid closed with little alkali water.



Delicious tea and coffee

Alkali water is also added to prepare a cup of coffee or tea. If adding alkali water, puckery or bitter taste is removed while the genuine taste and smell remains. In addition, if adding alkali water to an alcoholic drink, it tastes mild and mitigates hangover.



Powdered milk solution improving growth and development

If dissolving powdered milk with alkali water (pH 8.5) and feeding a baby, it helps it physically be developed and form strong skeletal structure.



Healthy diet reducing body fat

Alkali water is quickly absorbed while promptly discharged, discharging wastes, which helps to reduce body fat, that is, alkali water is helpful for healthy diet.



Bean sprouts without fish smell

If boiling bean sprouts with alkali water, water quickly boils and it may smell delicious. Even though removing a lid during cooking keeps less fish smell to serve delicious bean sprouts.



Hangover relief

If waking up after drinking liquor and drinking cups of water in increased alkali water level or before sleeping, it helps relieve hangover.



Water replenishment after exercise

Since we discharge sweat after exercising because of faster circulation, our body wishes to absorb water. Alkali water has smaller clusters, which helps absorb water quickly, so you don't need to purchase any ion beverage after exercise.



Removing stain on silky clothes

Trying to remove stain on silky clothes may cause more stain. Soak stained area of clothes with alkali water and blot it with gauze, helping it to be removed. It is also helpful to remove stain on a tablecloth.



Meat softens in soaking

Meat is softened and becomes delicious if cooked in soaking in alkali water for 20 - 30 minutes.



Savory Cheonggukjang

Using alkali water for serving Cheonggukjang reduces smells and induces good taste.



Healthy and strong pet

Feeding your pet with alkali water helps reduce smell and bring it up healthily.



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 serves 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 easy falling off.

Applications of Acid Water

Clean house with acid ionized water !

Acid ionized water contains minerals with sterilization and disinfection such as chloride and sulfur; functionally helping hygiene control.

Acid ionized water

- If selecting pH 5.5 as same as the skin, it becomes cosmetic water like astringent.
- Bleaching effect by chloride ion displays excellent sterilization.

Acid ionized water helps make a clean environment !

Acidic Ionized water Usage

pH 3.5 suitable for washing dishes.

pH 5.5 recommended for washing face and taking a bath.

Useful tips using acidic ionized water !



Boiled egg easily broken

If you want to have soft-boiled egg, use alkali water while you'd better use acid water to easily break egg. It can help you easily and quickly cook egg.



Elastic skin care

Acid water keeps contraction effect, so using the water for washing face contracts the skin pores, maintaining the skin elastic and glossy.



Eliminating agricultural chemicals threatening the health

Agricultural chemicals are normally used to look better. However, it fatally causes diseases generally such chemicals are strong alkali, so to take vegetables or fruits safely and cleanly, they need washing with acid water to neutralize chemical substances. Rinsing with alkali water and be stored in a fridge. Acid water keeps a strong oxidation as much as 5 times of chloride, eliminating viruses, bacilli and even agricultural chemicals.



Pork with less fat

To cook pork with less fat, soak raw pork in acid water before cooking and rub it with hands.



Chewy and delicious noodle

Boiling noodles with acid water helps prepare chewy and delicious noodle (however, thick noodles like Udon and spaghetti needs alkali water).



Delicious fries

Using acid water for fry kneading makes fries more crunchy.



Stains on a kettle

Stains on a kettle or burn pot may be restored if being soaked in acid water for a day.



Natural cleaner for women

Using acid water for bathing women's private parts functions as a natural cleaner. It is cleaner and safer method than chemical products.



Foot bathing relieving the fatigue of feet

If overworking in standing, walking for a day or feet are swollen, bathing feet with acid water, relieving fatigue and swollen parts.



Stopping of bleeding

When you have a scratch or get a cut, please remain calm, disinfect with acid water and apply a proper medicine. It prevents the part from festering and fosters stopping of bleeding with mitigation of pain because of contraction effect.



Elimination of odor from a sinkhole

When ill-smelling due to dregs and dust built in sinkholes of sink or bathroom, pouring strong acid water may eliminate propagation of mold, deodorizing.



Clean India ink

Using acid water rubbing an ink-stick makes ink darker and well rub.



Thorough cleaning

Using acid water to clean corridor and tiles easily eliminate dust on corners while it is not sticky because it is quickly dried up.



Glossy spoon

Soaking spoons in strong acid water sterilizes, disinfects and cleans spoons and makes it glossy.



Bath tub without slime

Boiling water for bath with acid water saves time because of high thermal conduction and prevents slime from being built on a bath tub.



Washing dishes cleanly

Acid water must be used to wash dishes because it has the effect of cleaning and sterilization and maintains tableware clean and glossy.



Fresh flower arrangement

If you receive a bouquet celebrating any anniversary, you'd better spray acid water on the cut side of flower to maintain them fresh for a long time.



Enjoying the feeling of a sulfur spring

Acid water has the function of astringent, so using it for washing face makes your skin smooth and glossy.



Clean kitchen environment

Boiling cotton tablecloth too frequently cause them worn. It is helpful to soak them in acid water and wash them, which eliminates bacilli stuck on them and removes impurities inserted into cuts on a chopping board.



Prevention of infectious diseases of pets

Using acid water to wash fur of pet can prevent pet from suffering from infectious diseases while maintaining the fur glossy and fostering the growth.

Biontech & Products

Features of Biontech Products

- Automatic cleaning of electrodes cell based on self-diagnosis makes the dice 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 users 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 dean water.
- With the adoption of the new material, platinum for coating electrode realizes high purity of ion and minimization of water duster 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	Strelizing Power	Absorbing Power	Medical Benefit
Boiled Water	111.6 Hz	No	Yes	Good	Not very good	No
Water Taken from a mountain	100 Hz	Yes	Small amount	Not at all	Some	No
Purified water (reverse osmosis method)	150 Hz	Yes	Not at all	Small amount	Some	No
Alkaline Water	54 Hz	Rich	Rich	Excellent	Excellent	Excellent

Water Ionizer Specifications? (Medical Substance Producer)

Product name	Medical substance producer
Rated voltage	AC 220V 50~60 Hz
Water supply method	Direct link to tap water
Water pressure available	0.7~6.0 Kg/cm ²
Temperature Available	5 °C~35 °C
Overheat-prevention device	Two Built-in temp. Sensor (auto reset)
Electrodes (Electrolysis method)	Continuous
Cell (Creation capacity)	1.5 L/min. (at water pressure of 2Kg/cm ²) "included alkaline water and acidic water"
(Electrolysis stage)	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)
(Electrode)	Platinized titanium
Purification (Filter replacement)	Cartridge method
Device (Filter life)	About 13 months (when 10L of water is provided a day)
(Life display)	FND figure display / LCD
(Filter material)	Nonwoven, pp filter, GAC, silver-added active carbon, calcium sulfite, block carbon, U/F membrane filter (optional)
Operation indication	Sound / Sound & Test
Water inflow control function	Installed as a supplementary
Medical Device Item Approval	KFDA No. 889



Specifications & Models

Global Networks!

We are reaching closer to the customers in the world. Putting our customer's health and wellness first, BIONTECH Co., Ltd. Lends an ear smallest Sound of our customers. Meet BIONTECH Co., Ltd. Which is always open to you.



Certificates

					
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.2005064	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 VP ASIA DIGITAL Household Electronics in the field of Water Ionizer for 3 consecutive years.	Won the board of report on the side today	Won the Company of Korea 2008 Business Innovation Prize selected by Korea Customers' Forum and Joong-Ang Ilbo	Won the Company of Top 100 of Small and Medium size business of Korea by Hankook 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



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