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IONFARMS CO.,LTD.

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Printed in March, 2020



Ionizer

Alpha-1700 series
Alpha-U1700



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ION FARMS

IonFarms Co., Ltd. is a government certified professional trading company established in 2001. IonFarms exports a variety of eco-friendly and well-being products that promote quality life and protect the nature.



Overview

IonFarms Co., Ltd. is a government certified professional trading company established in 2001. IonFarms exports a variety of eco-friendly and well-being products that promote quality life and protect the nature.

IonFarms formed an international network that covers over 30 countries worldwide. With its growing sales volume every year, IonFarms has been established as a global company that never ceases to explore new markets.

IonFarms works continuously to create better value to the existing products that have contributed greatly to the company's growth. Having established its laboratory in 2012, IonFarms has invested unsparingly on R&D to come up with new innovative products. Investing on waterionizers, washballs and other eco-friendly life products plays the core role in realizing IonFarms' visions.

IonFarms seeks to enrich life through constant innovation to provide fundamental solutions to the immediate problems people are facing and to offer differentiated services.

IonFarms strives to be a company that values customers, protects the environment, and puts sharing into action.

Authentication and patent





Alpha-1700 series / U1700

Modern Design

Alpha-1700 series



Alpha-1700 Silver

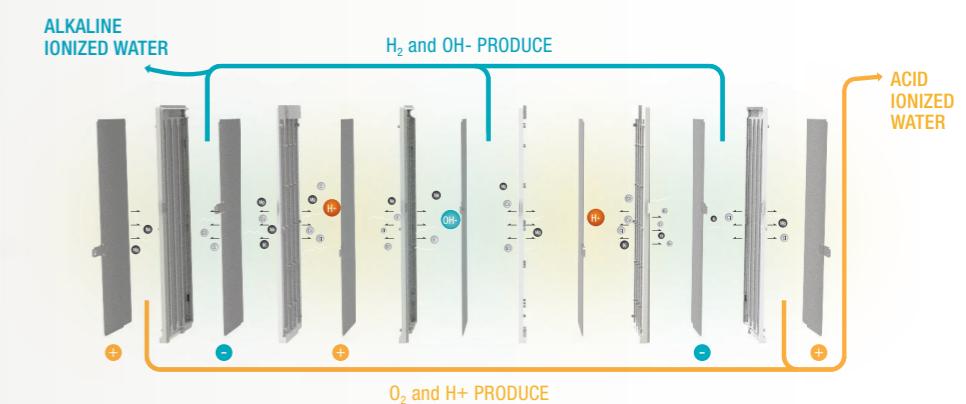
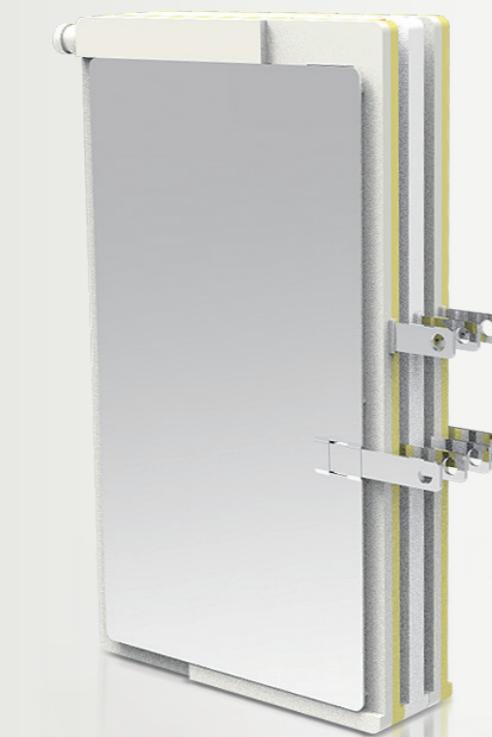
Alpha-1700 Black

Alpha-1700 Roesgold

Alpha-U1700



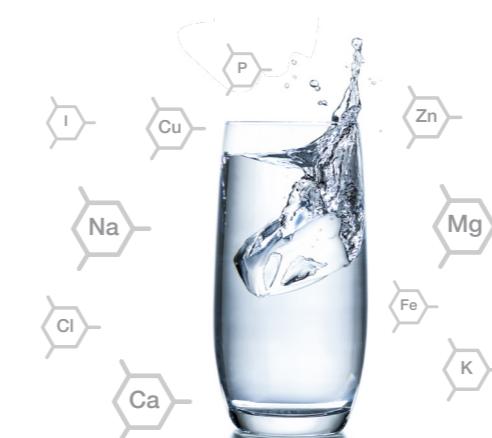
Alpha-U1700



Water is Crucial to Life

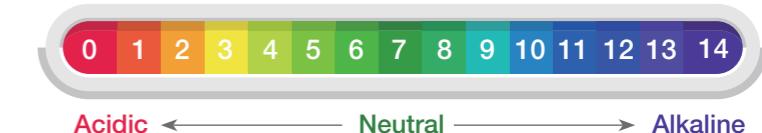
It's never enough to stress the importance of water. Water, which composes 70% of our body, circulates nutrients and oxygen throughout our body, excretes metabolic wastes and regulates body temperature, osmotic pressure and pH level. Because it is essential to our health, it is also very important to drink good, healthy water every day.

Once tap water is filtered primarily, purified water enters the electrolysis chamber. In the electrolysis chamber, the electrical power separates the water into alkaline water near the negative electrodes and acidic water near the positive electrodes. Near the negative electrodes, the positively ionized minerals, such as calcium (Ca), magnesium (Mg), potassium (K) and sodium (Na) and dissolved hydrogen produce the high pH alkaline water, whereas near the positive electrodes, negatively ionized minerals, such as chlorine (Cl), sulfur (S) and dissolved oxygen make the low pH acidic water.



Potential of Hydrogen (pH)

The pH is the concentration of hydrogen ions contained in the water. More than 70% of the human body and more than 90% of the blood are water. Because the body water component is weakly alkaline at pH 7-8, it is good for the human body to drink weak alkaline water.



Alkaline Water

- Alkaline water is composed of small water molecule clusters, which increase the metabolism.
- Alkaline water tastes smooth and crisp.
- Alkaline water is rich in active hydrogen, which scavenges free oxygen radicals.
- Alkaline water alleviates four gastrointestinal symptoms.

Acidic Water

- Acidic water is functional water that has antibacterial, anti-inflammatory and sterilizing effects.
- Acidic water effectively washes pesticides off fruits and vegetables.
- Acidic water can be used to sterilize dishcloth (Soak it in the acidic water for 30 minutes or longer).
- Acidic water makes your skin firmer and radiant when used to wash face.



Nuclear Magnetic Resonance (NMR)

Alkaline Ionized Water is absorbed into our body faster.

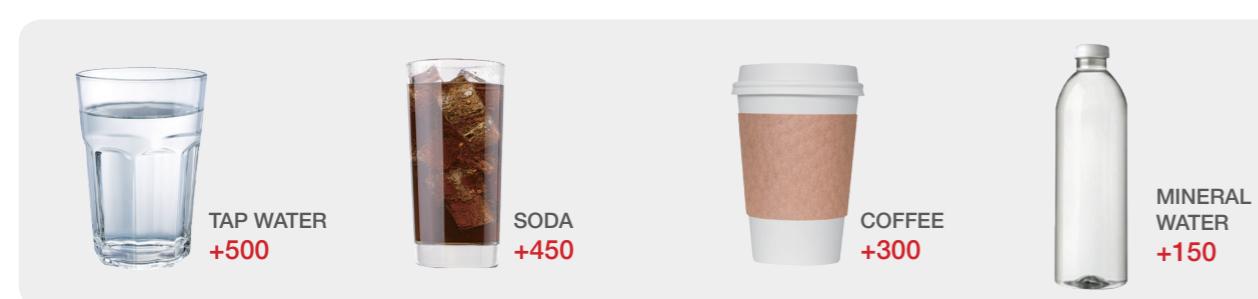
Water forms and exists as clusters. In general, each water cluster is composed of 15-16 water molecules. However, the alkaline ionized water has smaller water clusters, which are composed of 6-8 water molecules. Therefore, it is absorbed into our body quicker and helps excrete bodily wastes more effectively than the ordinary water. The alkaline ionized water whose clusters are one-third size of the normal water permeates into and cleans from deep inside our body.



[The size of the water molecule cluster can be measured by NMR]

Oxidation Reduction Potential (ORP)

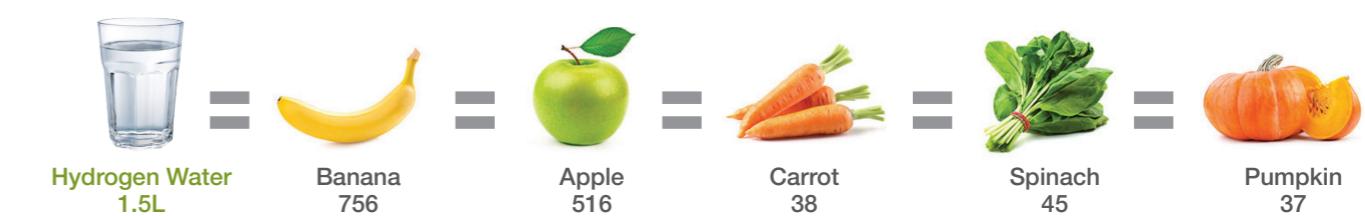
Oxidation means losing electrons, and reduction means gaining electrons. ORP is a measure of the tendency of a compound to acquire or yield electrons and is measured in mV (millivolts).



Molecular Hydrogen

The hydrogen molecule is made up of two hydrogen atoms that are covalently bonded (shared electrons). This molecule has a neutral charge and is the smallest and lightest gas in the universe. These qualities make the hydrogen molecule extremely unique because it means H₂ can get anywhere it wants to in your body, including passing the blood-brain barrier, and into subcellular compartments such as the mitochondria of your cells.

Molecular hydrogen is also known as a therapeutic medical gas with amazing medical potential in the scientific literature.





Patented Premium Filter System

Alpha DML Filter (Multi-Functional Carbon / UF/ Ceramics)

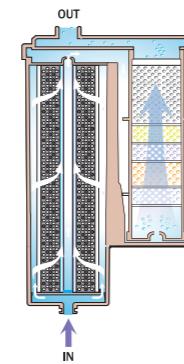
Alpha DML Filter is a patented multi-functional filter that produces minerals and removes antibiotics and viruses in the water.

- Alpha Carbon Ceramic Filter
- Alpha Carbon UF Filter

Alpha Carbon Ceramic Filter

Alpha Carbon Ceramic filter is a patented multi-functional filter. The block carbon and the ceramics produce minerals, removes bacteria and increase the taste of water.

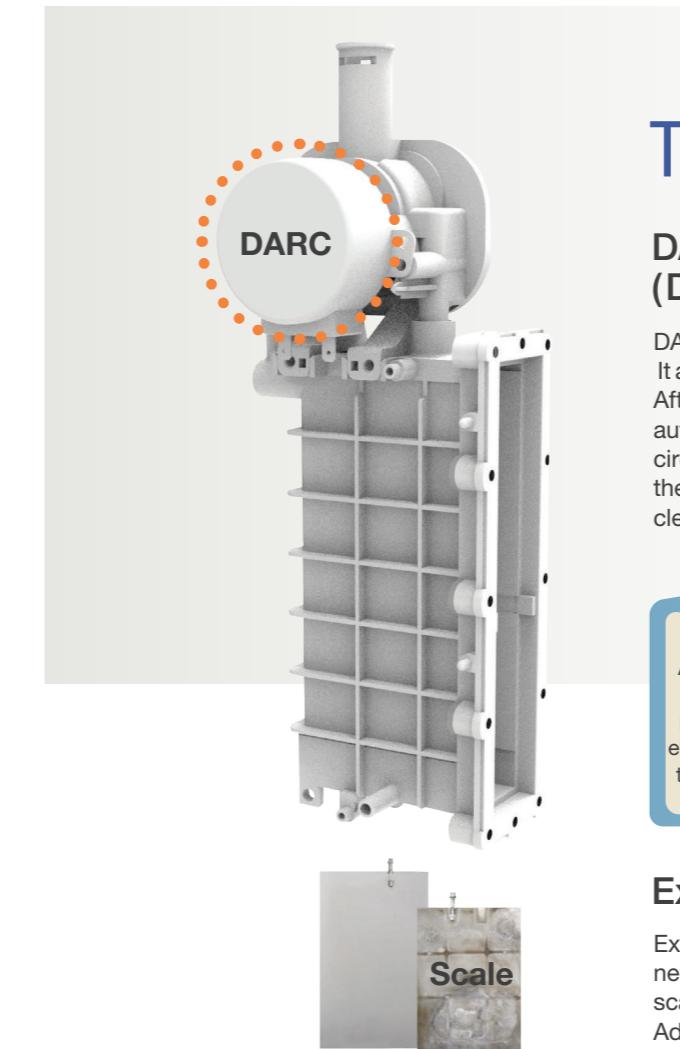
- ① Sediment Filter
- ② Powdered Activated Carbon
- ③ Wet Molding Carbon Block
- ④ High Density FELT Film
- ⑤ Granular Activated Carbon
- ⑥ Ceramic (Quartz)
- ⑦ Ceramic (ZrO₂, SiO₂)
- ⑧ Dechlorination Ball
- ⑨ Ceramic (Zeolite, Silver)



Alpha Carbon UF Filter

Alpha Carbon UF filter is a patented multi-functional filter. The block carbon and the UF membrane (0.01 micron) removes sediment, chlorine, heavy metals, bacteria, viruses & all other contaminants in the water. It also improves the taste of the drinking water.

- ① Sediment Filter
- ② Wet Molding Carbon Block
- ③ UF Membrane
- ④ Sediment
- ⑤ Dechlorination Ball



Triple Cleaning System

DARC (Double Automatic Reverse Cleaning System)

DARC cleans with every use, eliminating damaging scale buildup. It accomplishes this by reversing polarity each time you use the ionizer. After the water has been released four times, the DARC system will automatically reverse the polarity on the electrodes as well as the release circuit. The revolutionary DARC cleaning system eliminates mineral scaling on the electrodes. DARC is highly effective because it works in the background to clean your electrode, each time you use your ionizer and while you are using it.

- 01 Automatically converts the polarity of the electrolyzer and the water path
- 02 Perfectly prevents Scales
- 03 Produces the best Ionized Water
- 04 Improves the electrolyzer durability

Extra-Cleaning System

Extra-cleaning system automatically releases acidic water after every use and neutralizes the remaining alkaline minerals. This prevents the minerals from scaling within the main outlet, ensuring safe, healthy drinking water at all times. Additionally, the acidic water left over from this release will return to the system.

Switching Mode Power Supply

Producing alkaline ionic water starts from stable power supply

It keeps an output voltage consistent by changing AC voltage into high DC voltage and controlling with high frequency.

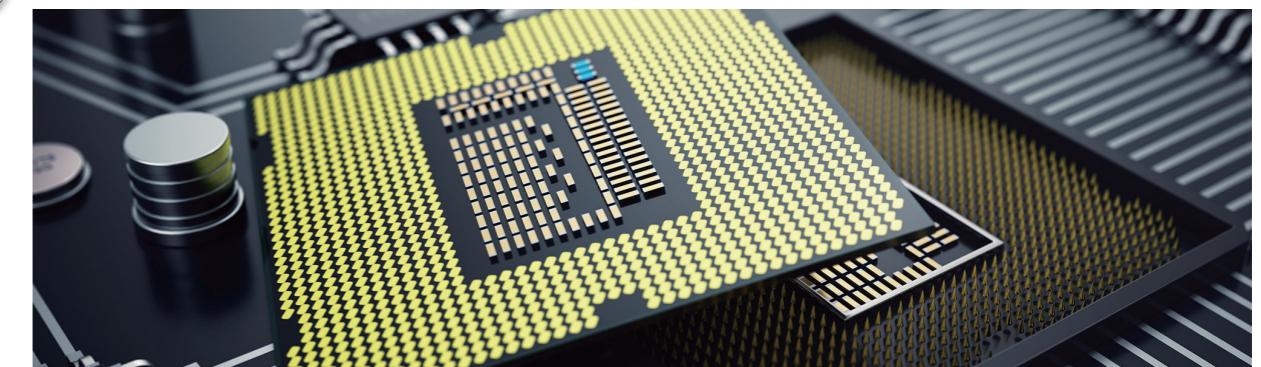
Stable power supply

It keeps the water property stable without any changes even with a constant water influx.

Electrical stability

It blocks electric supply when an overcurrent or overvoltage occurs.

Economic feasibility





Alpha-1700 Series

Aesthetic Display
Aesthetic Display : The design applied modern color of housing, and the minimal white dots on the LED make Alpha-1700 stand out aesthetically and allow you to check the status of an operation simply. Also, anyone can easily use it with a one-touch button operation.

Safe Material
The water outlet faucet covered with titanium produces safe and healthy alkaline water and doesn't contain any heavy metals.

99.9% Platinum Titanium Electrode
Platinum Titanium, which minutely electrolyzes water molecules, has high electrolysis efficiency and can stably separate alkaline water and acid water.

Alkaline water abundant with activated hydrogen

User-Friendly Functions



Auto-cleaning

It keeps its life for a long time by automatically cleaning the electrodes based on water flux and time conditions to prevent water scale.



Filter Change Alarm

The filter usage can be seen on the display and you can get alarms with voice guidance to change the filter.



Eco Mode

When not in use for more than 10 minutes, it's converted to the low power mode and time appears on the display.



Usage Patterns Memory System

It displays phased and cumulative usage of alkaline, acidic and neutral water.



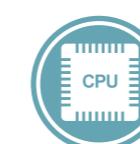
Voice Guide Available in Various Languages

You can select language from 6 supported languages.



Self-Change Filter System

Replacing the filter is simple and just like changing batteries.



The First Filter Usage Memory Function in the World

Using high-tech memory device allows you to check the phased and cumulative usage of alkaline, acidic and neutral water and to manage the product.



Voice On/Off & Volume Control

Voice guide and the volume can be on / off and controlled.

Specifications

Model	Alpha-1500 / 1700 Series	Alpha-U1500 / U1700
Color	Silver, Black, Rose gold	Faucet-Silver, Main body-Black
Rated Voltage	AC100~120V; 50~60Hz/ AC220~240V; 50~60Hz	AC100~120V; 50~60Hz/ AC220~240V; 50~60Hz
Electric Consumption	Max. 160W	Max. 160W
Power Protector	Fuse 3.15A	Fuse 3.15A
Weight	14.33 lb (6.5 kg)	16.97 lb (7.7 kg)
Required Water Pressure	98 kPa ~ 686 kPa	98 kPa ~ 686 kPa
Water Volume Generated	2 ~3 liters/ min (0.53 gallon ~ 0.79 gallon/min)	2 ~3 liters/ min (0.53 gallon ~ 0.79 gallon/min)
Cleaning	Automatic Cleaning System	Automatic Cleaning System
Filter Lifespan	5,000 liters/ 6 months (may vary by water quality - Hardness)	5,000 liters/ 6 months (may vary by water quality - Hardness)
Warranty	3 Years	3 Years
Origin	Made in Korea	Made in Korea