Rainwater Purification System



Water is the source of life and a finite resource

The earth is said to be a water planet, but 97.5% of it is seawater that is not suitable for drinking. the rest is fresh water suitable for drinking, but only less than 0.01% of the water is available to humans and animals

Even today, more than 500,000 people, mainly infants, die every year from waterborne diseases. As of 2020, 2 billion people will not have access to safe water, and by 2030, water resources will be 40% short of water demand.

We will work on sustainable water resource utilization through rainwater purification systems that utilize the sterilizing, antibacterial, and deodorizing properties of minerals.







Minerals benefits

- We focused on minerals derived from natural ores from an early stage and have been conducting research for more than 40 years.
- Minerals are elements that form human beings and are indispensable substances for living things on earth.
- The human body is 96.6% made of carbon, nitrogen, hydrogen, and oxygen, and the water (H²O) ratio accounts for 75%.
 The rest is minerals, of which 3~4% are intermediate elements (calcium, sodium, magnesium, potassium, etc.),
 0.02% is trace elements (iron, zinc, copper, manganese, selenium, cobalt, chromium, iodine, nickel, etc.).
 Minerals are not produced in the body and can only be ingested from the outside. Each has an important role.
 Missing one will not keep you healthy. Minerals are the "ring of the chain of life" that supports our lives.
- In recent years, due to the use of chemical fertilizers and pesticides to improve productivity, unbalanced eating, dietary restrictions due to diets, mineral intake is relatively insufficient, which is one of the causes of lifestyle-related diseases.

We extract ionized minerals from natural ores. It contains all the trace elements necessary for the human body. Utilizing minerals for practical use in agriculture, poultry farming, pig farming, fresh fish, beauty, etc., we have achieved great results.



natural mineral ore

mineral		Symptoms and diseases caused by deficiency	
calcium	Ca	Skeletal deformity, caries, osteoporosis, tetanus	
iron	Fe	Anemia, alopecia, growth disorders	
zinc	Zn	Growth inhibition, gonadal dysfunction, decreased energy	
manganese	Mn	Skeletal deformity, growth disorder, diabetes, etc	
copper	Cu	anemia, hair pigment deficiency, vegetative diseases,	
cobalt	Со	Anemia, decreased appetite	

Minerals are not only necessary for life support,

but are also recognized for their sterilizing, antibacterial, and deodorizing effects.

Space spraying of hypochlorous acid and rubbing alcohol used for sterilization and sterilization is very dangerous, but our natural ore-derived "The mineral disinfectant water SAKURA Virus Cut" is not only effective in sterilizing, antibacterial, and deodorizing, but also sprayable in spaces, and is safe solution even if it gets in the mouth at all. It is used in Japan, the United States (FDA medical device registered) and other countries.

Humidifier:

Electric Server;

Harmless ingredient for space sanitization

Water purifier for humidifier and mist sprays



« Concentrated 400mℓ: 120 ℓ purification »

Handy spray type

Disinfectant concentrate specialized for electric servers



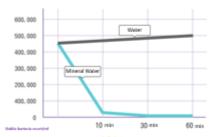


Comparison with alcohol and hypochlorous water products					
	Viruscut	Hypochlorous water	Alcohol		
Sterilization	0	Δ Use after removing dirt	0		
Antibacterial	0	X	X		
Deodorant	0	Х	Х		
Space spray	0	Х	Х		
Product odor	Odorless	Chlorine odor	Ethanol odor		
Metal corrosion	no	yes	no		
Expiration date	Three years	Three months	Three years		

Effect verification test results

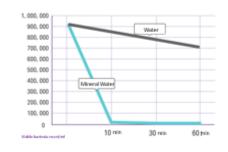
the anti-bacterial test result by the Japan Food Research Laboratories





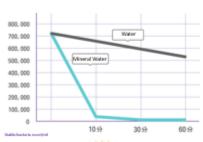
99.9% removal in 10 min

The most familiar causative agent for food poisoning Staphylococcus aureus



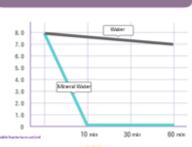
97.3% removal in 10 min





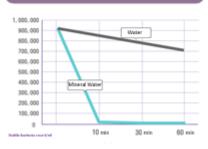
99.8% removal in 10 min

Commonly found in raw food or cysters Norovirus



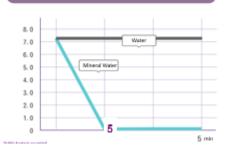
99.9% removal in 10 min

Strongly infectious and often found in soilet Shigella



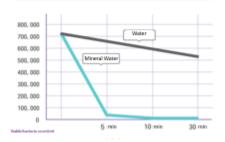
99.9% removal in 10 min

Preparing for annual season Influenza

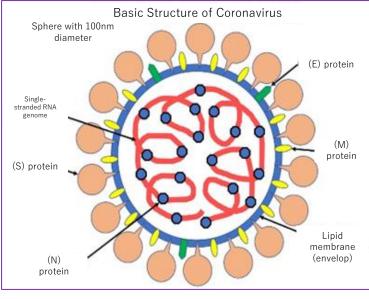


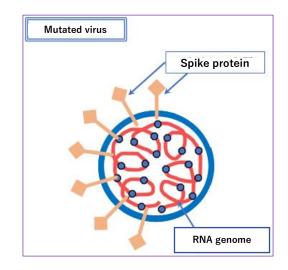
99.9% removal in 10 sec.

Preparing for the new coronavirus Swine Coronavirus

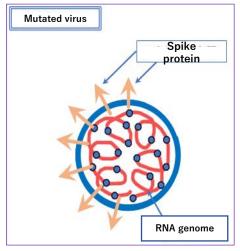


99.7% removal in 10 min



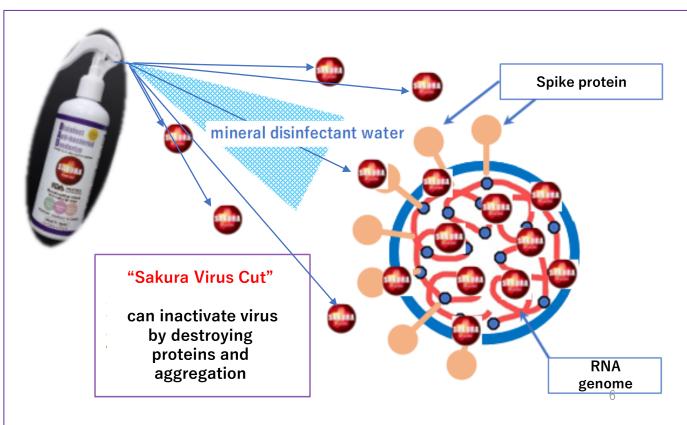


Various Mutations



SARS-CoV-2, which causes COVID-19 is one of coronavirus that has been confirmed to infect humans.

It is derived from Latin word "corona", which means a crown after the shape of a ring of spike proteins under an electron microscope.





The feature of Rainbuster is a safe filtration system using ionized minerals.

Minerals precipitate and aggregate invisible impurities contained in water. It further inactivates bacteria and viruses.

Rainwater dripped with minerals is reacted inside the bag filter and then subjected to primary filtering.

After that, fine impurities are removed with a 0.2 μ filter, and then deodorized with an activated carbon filter.

Instilling minerals into rainwater, etc., it reacts with rainwater, etc. in a bag filter for primary filtration, and then 0.2 μ m The filter further removes impurities, and the activated carbon filter removes odors.

The power is covered by solar panels and batteries, so it can operate even in the event of a power outage.

It is an ecological system that uses the natural energy of rainwater and the sun.

After filtration, the purified water retains the mineral components necessary for the human body, and is safe to drink.

height:1620mm

Specificity

- (1) .It is an effective BCP solution that can be used immediately in the event of a disaster such as a water outage or power outage because it uses a solar power generation and storage system as a power source and rainwater.
- (2). The cost of adding minerals required to make 1 liter of water is only 1 JP yen.
- (3). Compact design increases the degree of freedom to choose the storage location and installation location. It is easy to move with casters.
- (4). Maintenance is easy with backcleaning of the filtration tank and regular filter replacement.
- (5). The system consists of a purification system, solar panels, and storage batteries.
- (6). Although it is a compact system, it can produce 13 liters of drinking water per minute, and it can produce about 800 liters of water in one hour, which is usually required for a family of four.



Ultra Fine Bubble mellows purified water

• The Ultrafine Bubble Generation Nozzle installed in the system generates more than 50 million ultra-fine bubbles in 1cc of water. This bubble makes the purified water mellower and easier to drink. In addition, this bubble floats in the water for a long time, so if you use it in the bath, biofilm (slimy feeling) does not stick easily, and yellowing of the toilet does not occur.





The amount of steam increases



Removes dirt from toilet tanks and pathways and helps purify drains



Keeps hair moisturized by allowing moisture to enter easily



Used for car wash finishing, it is less likely to get dirty



Remove biofilm from drains and drains



Makes it easier to remove dirt from washing, and removes biofilm in pipes and drains



Cleans the inside of the washing machine and makes it easier to remove dirt from the laundry

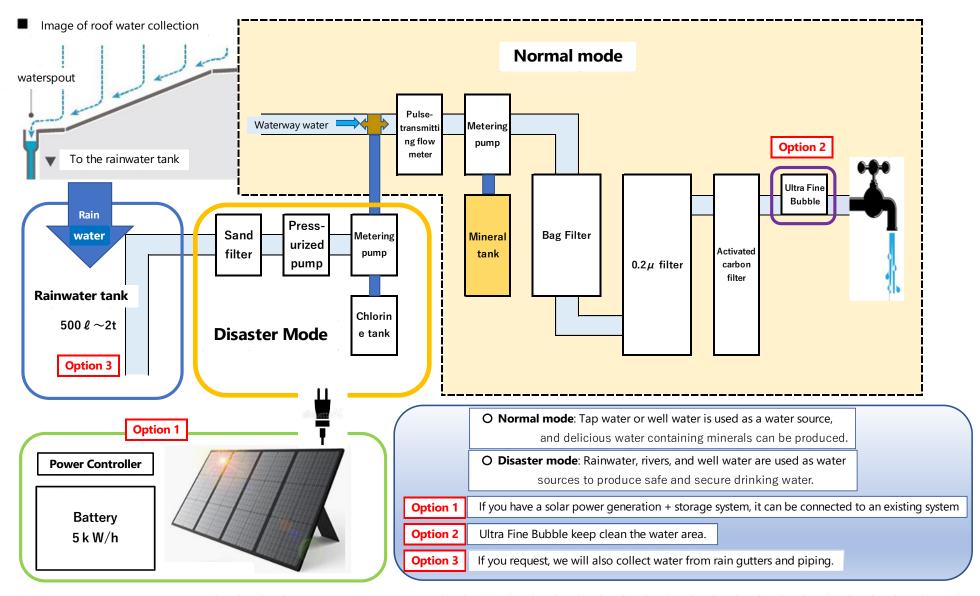
Equipped with a high-output energy storage system

- Equipped with a pass-through function that can be charged simultaneously from sunlight and AC power supply, and can be charged and discharged at the same time.
- Equipped with a uniquely designed heater, it can be charged and discharged at minus 30 degrees Celsius.
- Lithium-ion iron phosphate battery is adopted, the risk of ignition and explosion is lower than that of other batteries, and the battery has a long service life (10 years of charge/discharge, 2500 times or more)
- · Battery capacity can be expanded to a maximum of 15kWh in 5 stacks per unit (unit).
- · Dustproof and waterproof IP65, compact and easy to move with casters



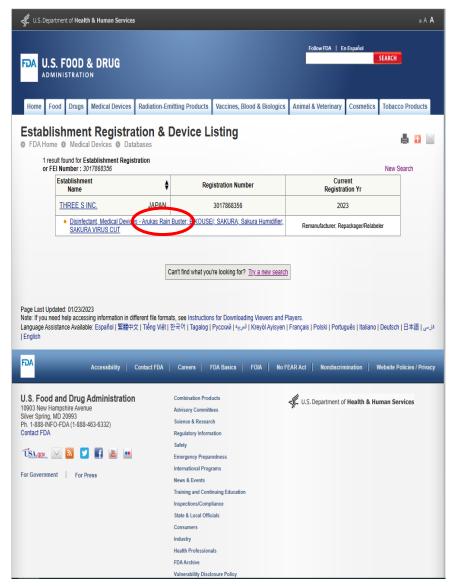
Temporary energy storage system

Rainbuster System Configuration Diagram



Japan: Drinking Water Testing Conformity, US: FDA Disinfectant, Medical Devices Registered





Thank you for your attention.

Contact us:

ARUKSA USA Inc

4459 W Flamingo Rd unit4B, Las Vegas, NV 89103

Te I:702-701-8515

https://www.arukasusa.com