

# NEXT GENERATION TECHNOLOGY RICHWAY ALKAL-LIFE 7000sL™

pH CALIBRATION SYSTEM & WATER IONIZER



## RICHWAY & FUJI BIO INC.

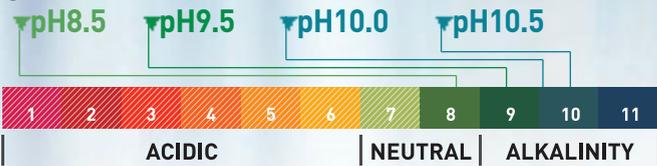
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RICHWAY EUROPE B.V. RICHWAY & LIFE JAPAN CORPORATION. R & L CORPORATION

## Alkaline Water & Life

# Alkaline Ionized Water for an ion-balanced body.

### pH level of Alkaline Ion Water



## Alkaline Ionized Water for the Body

- ✓ **Water that removes wastes from the body**  
Electrolysis-reduced water removes wastes from the body. It helps maintain balance by removing activated oxygen from the body.
- ✓ **Activated water that helps lively movement of human cells**  
The small-sized water clusters (molecular sizes) are helpful in cellular activity.
- ✓ **Nutritional Water Rich in Minerals**  
It supplies essential minerals including calcium, sodium, magnesium, and potassium.
- ✓ **Hexagonal Water that Protects Intracellular Substances**  
Hexagonal water helps protect intracellular substances.

## For Healthy and Vital Living



### Boiling Rice

Soak rice in alkaline ionized water for 30~60 minutes before boiling rice and the rice will be as glossy as cooked glutinous rice with a delicious taste.



### Making Tea

Alkaline water removes the bitter taste from coffee and tannic taste from black tea enhancing its original deep taste and aroma.



### After Exercising

The small-sized water clusters are rapidly absorbed into the cells when consumed after exercising and helps replenish the body.



### Various Cooking Recipes

As the cluster size of the water is small, it can be used in the preparation of foods such as cow-bone soup and watery plain kimchi, for better taste and is also useful in boiling oriental medicine.



### Food Freshness

Use alkaline ionized water in the preparation of foods for long-lasting freshness.



### Excessive Drinking and Hangovers

Drink 1 or 2 cups before going to bed or before breakfast (the morning after) for faster relief.



### Powdered Milk for Babies

Good for use in the reconstitution of powdered milk for babies.



### Liquor, Cocktails

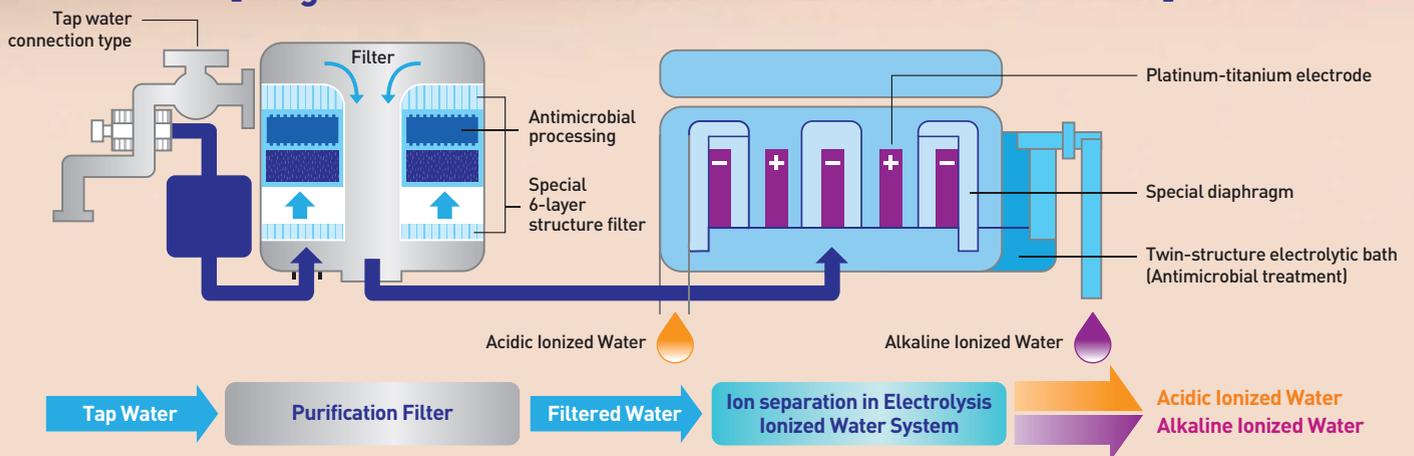
Alkaline water makes liquor and cocktails soft and light. Try a delicious cocktail on the rocks mixed with alkaline water.

# What is a RICHWAY Alkal-Life 7000sL Ionized Water System?

Water contains various minerals and an electrolysis-ionized water system converts this water into alkaline ionized water for drinking and acidified water for household use.



## [ Diagram of the Mechanism for Ionized Water Production ]



## What is the mechanism of ionized water production?

The mechanism involves electrolysis of water through the use of electrode energy and ionic materials moving to different electrodes (anodes and cathodes) through the porous special-coal diaphragm. The electrolytes moving to anodes are anionic minerals such as calcium ions, sodium ions and magnesium ions, and the electrolytes moving to cathodes are cationic materials such as chlorine ion and sulfur ion. The water electrode side is called Acidified Ionized Water. The Electrolysis-Ionized Water System is a product approved as a medical device by the Korea Ministry of Food and Drug Safety (MFDS). It produces alkaline ionized water, which is beneficial to health, and acidified ionized water which can be used for household purposes and purifies by removing various contaminants.

# Soft Touch Performance System

Remarkable design lends additional beauty to your kitchen.



## A healthy life begins with an Antioxidant Water System



### Automatically adjusts for optimum pH levels

The quality of water supplied to each household may differ depending on the area and conditions. Although the water is consumed with selection at the same selected pH level, the pH concentration may increase or decrease. The Alkal-Life 7000sL Water Ionizer uses new and unique technology to produce highly-purified ionized water by automatically adjusting for optimum pH levels through self-diagnosis of changes in the water supply.



### Artificial Intelligence Sensor System

The self-diagnosis system, based on an RISC semiconductor circuit, provides error notifications caused by incorrect operation through messages on the LCD screen. As such, diagnosis and problem solving has become convenient and easy. Also, it is equipped with a safety system that shuts off the electrical current in the event of a power surge or excessive current flow.



### More than -500mV of Maximum Reduction Power

The main part of this Electrolysis-Ionized Water System is in the electrolytic bath. Through the utilization of platinum-titanium

material (a cutting-edge material in the new and unique technology of the Alkal-Life 7000sL Water Ionizer) the cluster size of water is minimized. The Alkal-Life 7000sL ionizer uses 5 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 Filter

Silver has been added to the activated carbon, which is the core material of the filter, to enhance cleaning power for the suppression of bacterial growth. Cleaner, more purified ionized water is produced through the excellent 2-layer, 12-step excellent purification process.



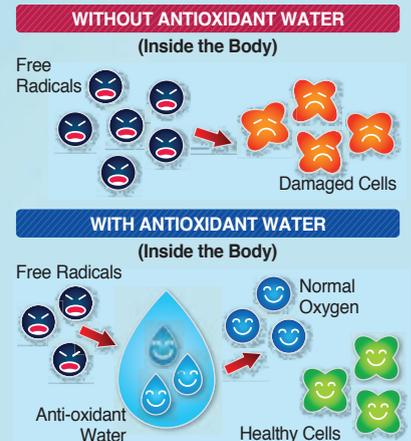
### Installation of Main Body Single-type ON/OFF Ceramic Valve

The ON/OFF valve was integrated into the product itself, making it convenient to turn on and off. The most advanced ceramic material has been used and can be used almost indefinitely. Also, the water pressure adjustment function provides added convenience.

## ALKALINE ANTIOXIDANT WATER IS VITAL FOR GOOD HEALTH

Water sustains life. Approximately 70~80% of our body is water. Water adjusts the body's temperature and assists in digestion. It removes toxins from the body and also makes necessary bodily fluids. The qualities and the properties of the water we drink can determine the quality of our health. **The ALKAL-LIFE 7000sL WATER PURIFICATION AND IONIZING SYSTEM** produces perfectly pH-balanced pure alkaline water for your good health.

### Antioxidant Water helps enhance the health of all people.



# Water Ionizer System

**RICHWAY**

**Alkal-Life 7000sL**

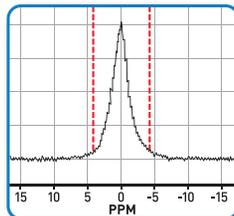
**The most advanced water purification and ionizing system in the world!**



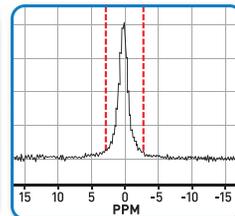
## Minimization of Water Clusters (molecular size of water clusters)

The effectiveness of ionized water depends on the cluster. Smaller clusters are rapidly absorbed deep into the cells and produce strong cellular activity. The size of the water molecules has been minimized to 50.0761Hz thanks to the technological capability that only the Alkal-Life 7000sL possesses.

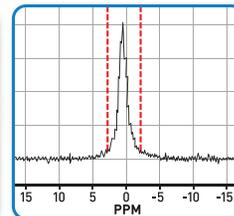
Cluster Size According to Water Particle Type	
Type	Size of water molecules
Tap Water (pH 7.5)	104.8479Hz
Acidified Ionized Water (pH 2.8)	55.2724Hz
Alkaline Ionized Water (pH 9)	50.3593Hz
Alkaline Ionized Water (pH 10)	50.0761Hz



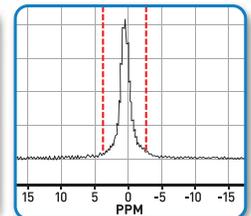
Tap Water (pH 7.5)



Acidified Ionized Water (pH 2.8)



Alkaline Ionized Water (pH 9)



Alkaline Ionized Water (pH 10)



### Automatic Self-Cleaning and Drainage Functions

Automatic self-cleaning is performed at every 10 liters of water flow to maintain the electrolysis function. Because self-cleaning is performed while the machine is stopped, use of this system is convenient and the cleaning effect is excellent. When self-cleaning is completed, the drainage is automatically performed.



### Subdivision of 7 pH Levels

The Alkal-Life 7000sL Water Ionizer splits the pH into 7 steps consisting of 4 Alkaline Ionized Water steps (pH 8.5, pH 9.5, pH 10.0, and pH 10.5), 2 Acidified Ionized Water steps (pH 3.5 and pH 5.5), and purification. The selection range has been 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 Display

The flow-detection sensor system circuit accurately detects the flow of water and filter life is continuously displayed on the LCD. Filter replacement period notification is done audibly, with the phone numbers of filter replacement service providers also displayed.



### One-touch Selection Method

Convenient touch-screen technology operation is 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 source water pressure through this ON/OFF Ceramic Valve.



### Genuine Filter Recognition System

Upon installation, the filter recognition system will either approve the genuine Alkal-Life 7000sL Water Ionizer filter, or display an error to inform the user of non-genuine part installation and water follow-up actions to take.

# For you and the Environment



## Alkaline Ionized Water for an ion-balanced body.



### **Fountain of Youth**

Aging is the result of damage to bodily tissues by organic acids and active oxygen (free radicals). You feel and look younger when you reduce the concentration of waste products that accumulate in your body. The outward signs of aging include wrinkles, sagging, and gray hair. Rejuvenate by drinking alkaline ionized water to wash out acidic wastes.

### **Say No to Fatigue!**

Naturally boost your energy with superior hydration. We all know thirst is a signal that we need more fluid and for those who ignore that signal, it can lead to loss of appetite, impaired physical performance, increased effort to physical work, nausea and difficulty concentrating. Superior hydration helps boost mental and physical performance. Remember, water is essential to your body and your brain. All body systems function better when you're properly hydrated and that includes digestion and metabolism.

### **Reduce Waste and Heal the Planet**

According to the United Nations Environmental Program, more than 20 billion pounds of plastic ends up in the ocean every year. In addition to the 17 million barrels of oil used in production, bottled water consumes gallons and gallons of water. Let's do our part by saying no to plastic water bottles and filling our own non-plastic containers with alkaline ionized water.



# Optimal Health

## The Five Ingredients to Optimal Health with Alkal-Life Water



### **1 ANTI-OXIDIZING A Powerful Antioxidant**

We've all heard the terms free radicals and antioxidants, but do you know what they really mean? Free radicals are unstable oxygen atoms that cause oxidation in our blood, which brings about aging and disease. Oxidation is what turns an apple brown after it is cut or causes metal to rust. The process of oxidation steals electrons from the surface being oxidized. Antioxidants work by significantly slowing or preventing oxidation. Drinking ionized alkaline water helps scavenge free radicals in the body. It is nature's greatest antioxidant, laden with negatively charged hydrogen atoms.



### **2 ALKALIZING Alkalizing Action**

Why is alkalinity important? Our body's function best when they are neither too acidic nor too alkaline. Our blood system is always working to keep itself in the narrow range of pH 7.35 to 7.45. Alkaline water can neutralize the acidity of the body caused by stress, modern diet, air pollution and many bottled waters.



### **3 DETOXIFYING Detoxifying and Cleaning**

Having a clean colon is important... Animal protein, dairy, alcohol, processed and refined foods, and saturated fats all produce a mucus plaque that adheres to the colon walls. These toxins create a barrier that prevents vital nutrients from being absorbed into the body. It is well known in the field of integrative medicine that a polluted colon contributes to many diseases. By simply alkalizing our bodies and cleansing our colons, common ailments can be resolved.



### **4 HYDRATING Super-Hydration**

Ionization breaks clusters of water molecules into smaller micro-clusters, reducing the size of the clusters from the 11-16 molecules in standard water to just 5-6 molecules in ionized water. Smaller clusters pass through cells walls more easily and hydrate the cells more quickly. Ionized alkaline water provides superior hydration and nutrition at a cellular level. Alkal-Life water tastes smooth and sweet, increasing your desire to drink water. You can literally taste the differences!



### **5 BALANCING Bring Your Body Back in Balance**

When you take your first refreshing sip of Alkal-Life water, you will wonder how you ever tolerated anything else! Optimal health begins when Alkal-Life water turns your acidic, polluted, chlorinated tap water into healthy ionized alkaline water.

- Promote healthy weight loss
- Increase absorption of minerals and vitamins



## Acidic Water & Life

# Ion balance for the exterior body, Acidic Ionized Water.

## ACIDIC IONIZED WATER FOR THE EXTERIOR OF THE BODY



### ✓ SKIN CARE ACTION

With pore refining and cleaning action it is beneficial for the face washing and bathing

### ✓ EFFECTIVE CLEANING ACTION

Whitening action with chlorine ions effectively cleans your skin

## ➤ Comparison of pH and O.R.P.

(Oxidation Reduction Potential)

### Test results of Richway Alkal-Life 7000sL

Test results in details ▶pH: 7.34 ▶ORP: 682mV ▶TDS: 61ppm ▶Temperature: 77°F

	Acid				Alkaline			
	3.5	-	5.5	-	8.5	9.5	10.0	10.5
pH level	3.25	-	5.06	-	9.62	10.15	10.41	10.93
ORP (mV) value	896	-	785	-	-390	-496	-696	-838
Incoming current (mA)	1,072	-	724	-	343	638	803	1,126
Output voltage (V)	-26.79		-16.14		7.52	13.30	17.47	26.59

### Test results for K-Alkaline Water

Test results in details ▶pH: 7.49 ▶ORP: 567mV ▶TDS: 63ppm ▶Temperature: 77°F

	Acid			Alkaline				Remark
	pH 2.5	pH 5.5	Purified Water	pH 8.5	pH 9.0	pH 9.5	-	
pH level		4.29	7.49	10.21	10.55	10.82	-	Max pH 9.5
ORP (mV) value		886	497	-528	-651	-766	-	
Incoming current (mA)		1,770	69	73	592	1,674	-	
Output voltage (V)		-24.40	0.45	7.29	12.10	23.64		

### Test results for I-Alkaline Water

Test results in details ▶pH: 7.42 ▶ORP: 325mV ▶TDS: 60ppm ▶Temperature: 77°F

	Acid				Alkaline			
	4th Level	3rd Level	2nd Level	1st Level	1st Level	2nd Level	3rd Level	4th Level
pH level	4.29	4.87	5.41	6.52	8.46	9.24	10.01	10.50
ORP (mV) value	886	426	216	194	57	-92	-178	-396
Incoming current (mA)	1,770	701	500	301	260	307	459	808
Output voltage (V)	-24.40	-18.12	-11.05	-4.55	3.06	4.67	9.58	21.43

## For clear, clean skin, and for a pure lifestyle!

- ▶ **Bathing and face washing**  
Its astringent effect is beneficial for the skin.
- ▶ **Washing feet**  
Good for your feet, exhausted and soiled with contaminants.
- ▶ **Alternative to rinsing hair with tap water**  
Use acidic ionized water to rinse your hair after shampooing for softer, moist hair.
- ▶ **Eliminating bad breath and brushing teeth**  
Spray it to eliminate bad breath and the water may also be used for brushing teeth.
- ▶ **Washing vegetables**  
Its excellent cleaning action makes it good for washing vegetables to help maintain their colors.
- ▶ **Household cleaning**  
It removes household dust and dirt and is also useful for cleaning bathtubs, toilets, and furniture.
- ▶ **Removing deposits from kettles**  
Soak kettles with deposits or scorched pots in acidic water overnight and they will be clean the morning after.
- ▶ **Cleaning glass windows**  
Clean glass windows and mirrors with Acidic Ionized Water. Dust and dirt are easily removed with improved luster.
- ▶ **Use for cleaning chopping boards and dishes**  
Use for cleaning knife marks on chopping boards as well as dishes.

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