

# RICHWAY WATER IONIZER ALKAL-LIFE 3000SL

ALKAL-LIFE<sup>3000SL</sup> The most advanced water purification and ionizer system in the World!

## The Best Source of Water

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U.S. F.D.A. MEDICAL DEVICE : 300505378

### FEATURES OF THE ALKAL-LIFE<sup>3000SL</sup>

Alkaline Water Button  
Low, Medium, High, Extra High



+

Operation panel

pH Level  
indicator



Ionizer  
Activity  
Indicator

+

Acidified Water Button  
Low, Medium, High, Extra High



+

Activated Carbon Fiber Filter



Calcium Chamber  
Silver Activated Carbon Fiber  
Clinical Activated Carbon Fiber  
PE Plain Filter  
First stage filter

▼

HIGH TECH COMPUTER SYSTEM

The ability to  
prevent an  
excessive  
electric  
current.



## Antioxidant Water System

### The Best Source of Water

Here are three reasons why. First of all, ionized water is a powerful liquid anti-oxidant that is easily absorbed into the body. The water also neutralizes free radicals. Free radical damage causes us to age faster, and is largely responsible for many diseases including cancer. Secondly, ionized water is alkaline water, which maintains and balances our body pH. A proper body pH (6.9-7.2) creates an environment which deters bacteria, inflammation and disease. Lastly, the molecular structure is smaller than that of regular tap water. Tap water clusters contain 10-13 molecules opposed to the 5-6 molecules of ionized water. This small size allows more hydration and better detoxification.

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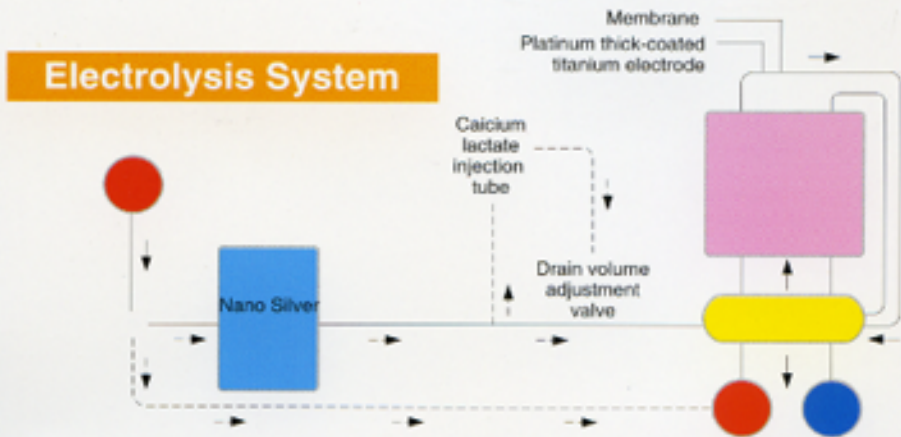




# ALKA-LIFE<sup>3000SL</sup> THE MOST ADVANCED WATER PURIFICATION AND IONIZER SYSTEM IN THE WORLD!



Antioxidant water is produced by using electrolysis. This is the same process used for metal plating, and it always results in a film or scale forming on the electrodes. The better the electrolysis performance the greater the amount of scale. Eventually, as the scale accumulates, electrolysis performance deteriorates.



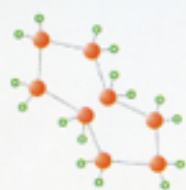
## ● BENEFITS OF ALKALINE WATER : HIGH pH (HYDROXYL IONS)

Provides energy, hydrates and absorbs nutrients quickly, brings body pH into balance, extends life of cut flowers, and promotes plant growth.

## ● BENEFITS OF ACIDIC WATER : LOW pH (HYDROGEN IONS)

Anti-oxidant quality provides relief to cuts, stings, burns, and rash, conditions skin and hair, removes dental plaque, excellent treatment for acne, eczema, fungus & athlete's foot, chapped/dry skin.

**ACIDIC WATER FOR EXTERNAL USE ONLY  
DO NOT DRINK.**



● Regular tap water



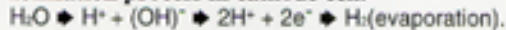
● Ionized Alkaline water

Doctors have discovered the following

## ALKALINE IONIZED WATER

It generates from cathode (- electrode) electrolysis cells of the ionizer unit.

**Ionization process in cathode cell.**

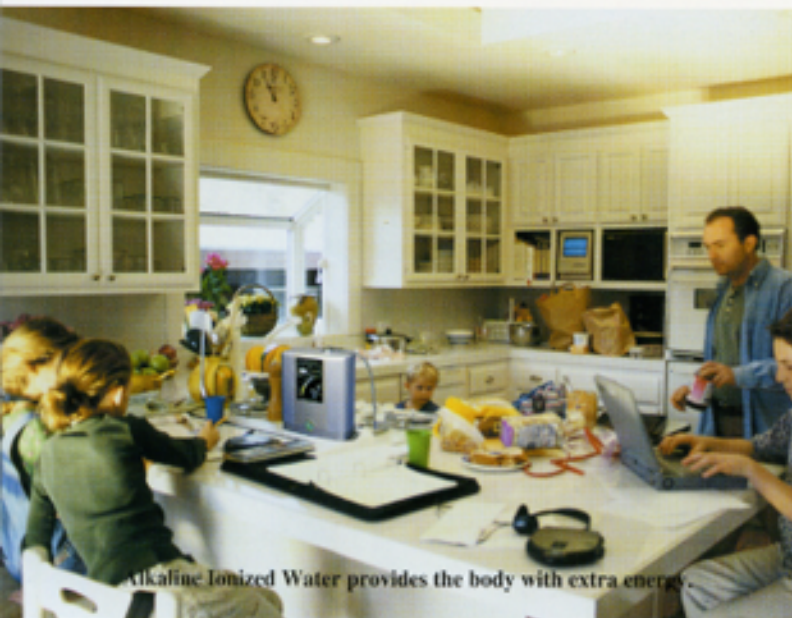


## Alkaline Ionized Water is a powerful antioxidant.

Our water ionizer has the ability to convert normal tap water to an antioxidant with a negative ORP(Oxidation Reduction Potential).  
ORP → Negative → Antioxidant → Supplying with abundant activated Hydrogen → Rejuvenating our body.

## Alkaline Ionized Water provides the body with extra energy.

Alkaline Ionized Water contains many Hydroxyl ions. Hydroxyl ions remove free radicals which are unstable oxygen molecules that cause damage and disease to our body. Once the Hydroxyl antioxidant and free radicals have cancelled each other, the result is that body is supplied with extra oxygen and energy.



Alkaline Ionized Water provides the body with extra energy.



Alkaline Ionized Water is a powerful antioxidant.

## ALKALINE WATER BENEFITS

When you drink alkaline water, you are drinking water with excess oxygen, not in the form of  $O_2$ , but in the form of  $OH^-$  which is very stable because it is mated with positively ionized alkaline minerals. Two of these hydroxyl ions can form a water molecule ( $H_2O$ ) and produce one oxygen atom. The alkaline molecule is used to detoxify toxic acid compounds, and when that happens the hydroxyl ion is freed to supply excess oxygen to the cells to prevent the development of cancer. It is indeed the case of killing two birds with one stone.

We are talking about two kinds of oxygen. One is in a dynamic form,  $O_2$ , and the other is in the stable bias form of  $OH^-$  mated with positively ionized alkaline molecules. The body needs both kinds of oxygen. If you hold your breath,  $O_2$  is cut off and you die, and if your body pH goes down below 7,  $OH^-$  is cut off and you would die also. When breathing stops,  $O_2$  is first used up and the body will use up  $OH^-$  secondly, then death will occur. That takes about three minutes. Those people with high alkalinity, like babies, would live longer than 3 minutes.



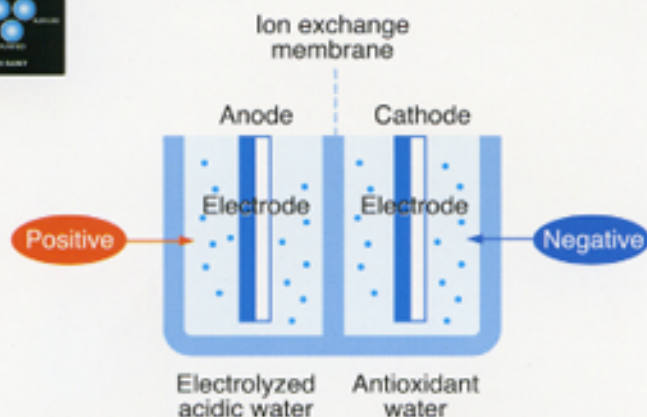
Health Benefits of Alkaline Water

## ALKAL-LIFE 3000SL FEATURES



**VOICE AUTOMATED. THE ALKAL-LIFE WATER IONIZATION SYSTEM IS TOTALLY MAINTENANCE AND HASSLE FREE!**

1. YOUR SELECTION IS PURIFIED WATER !
2. YOUR SELECTION IS ALKALINE WATER !
3. YOUR SELECTION IS ACIDIFIED WATER !



## Principle of Electrolysis

Electrolysis is a process whereby an electric current is passed through water containing an electrolyte (a mineral ion, for example), causing oxidization and reduction reactions that would not otherwise have occurred. The water on the anode side is oxidized and the water on the cathode side is hydronized, thus antioxidant water is produced.

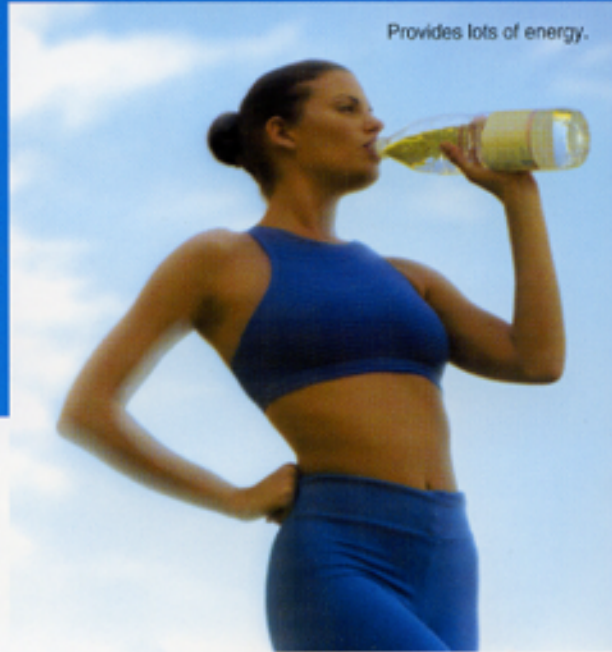


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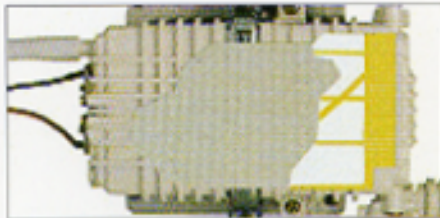
## A healthy life begins with an Antioxidant Water System



- **Rice** : Soak in alkaline water for thirty minutes to one hour before cooking. It makes rice sticky, and improves the taste.
- **Coffee, Tea** : Brewing with alkaline water eliminates the bitter taste of coffee and the astringent taste of black tea.
- **Hangover** : Drink 1 to 2 cups of alkaline water on an empty stomach in the morning, or before sleeping.
- **Cooking** : Alkaline water retains the vitamin and mineral content of our foods that are normally lost in the cooking process. Flavors are enhanced, and any acrid or bitter tastes associated with the foods are eliminated. The "fish" taste of seafood is also removed when you prepare and cook with alkaline water.
- **Plants** : Use alkaline water to help step up growth of roots, and promote growth by bringing acidic soil into neutrality. The acidic water serves as a disinfectant that protects the stems of plants from disease and harmful insects.
- **Fruits and Vegetables** : Wash and rinse with alkaline water to maintain freshness.
- **Liver, Pork, Game meats, and Fish**: Soak in alkaline water 20-30 minutes before cooking. Alkaline water softens (tenderizes) the meat and removes foul odors and the bitter after taste or "bite".
- **Formula for Baby** : Add alkaline water to powdered formula to promote growth and sturdy bone structure.



### PLATINUM-TITANIUM ELECTROLYTIC CELL



The Alkal-Life 3000sl water ionizer creates purified Alkaline Ion water from ordinary tap water. Alkaline water enhances internal pH balance, helping to fight fatigue and maintain good health by cleansing acid waste from the body.

### Features of the Alkal-Life<sup>3000SL</sup>

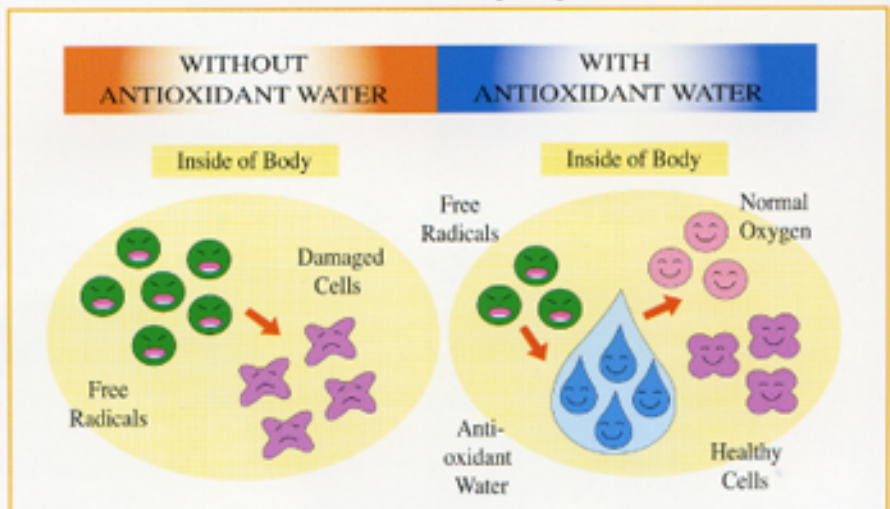
The two chambers are separated by a special membrane with very tiny holes, holes so small that water molecules (usually in structured clusters under an electric field) cannot go through, but large enough for the ionized inorganic minerals to go through.

In other words, you turn on the water and push the switch, and instantly you get a stream of alkaline water from the top, and another stream of acid water from the bottom. The ionizer does not add any chemicals or minerals to the water. It only splits the minerals already in the water to the alkaline side and the acid side. If the water has no minerals, an ionizer cannot make alkaline or acid water.

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

### 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 body fluids. The qualities and the properties of the water we drink can determine the quality of our health. The **ALKA-LIFE<sup>3000SL</sup> WATER PURIFICATION AND IONIZER SYSTEM** produces perfectly pH-balanced pure alkaline water for your good health.

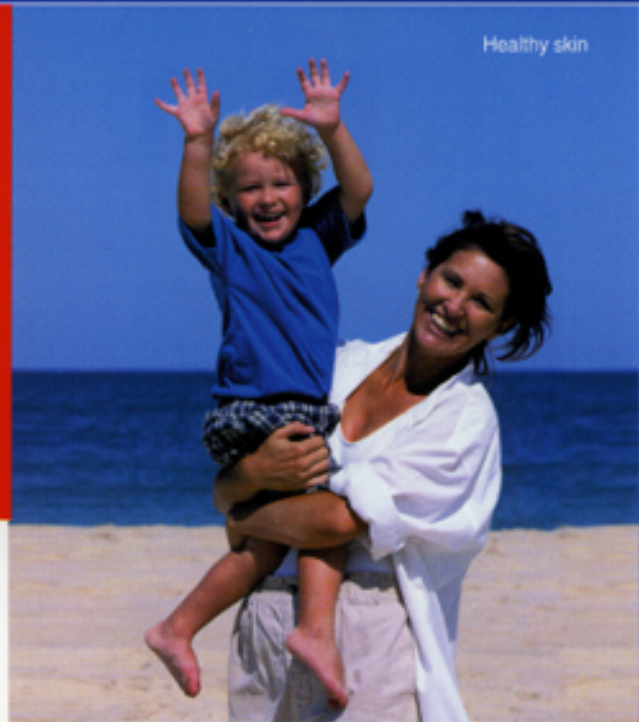




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- **Stomach Cramps** : Drink one-half cup of lukewarm acidic water every 3-5 minutes until the pain is soothed. When symptoms disappear, drink alkaline water.
- **Colds / Flu** : Gargle with acid water to soothe a violent cough or a sore throat.
- **Heat, Rash, Eczema, and Burns** : Acid water has superior disinfectant qualities. Dip the affected area in acidic water, or apply acidic water to the affected area for relief.
- **Athletes Foot** : Soak in acidic water for 20-30 minutes a day.
- **Washing / Bathing, Shampoo** : Acidic water softens and adds elasticity to skin and hair. Its astringent quality helps prevent acne, age spots and freckles.



## ACTIVE CARBON FIBER HIGH PERFORMANCE FILTER

Water cleaning cartridge service life sufficient for filtering residual chlorine from 3000 gallons of tap water

## Interesting Facts About Alkaline Acid Water

### Disinfection without boiling

The Japanese government tested the disinfection power of ionization by inserting colon bacilli (bacteria that invade the lining of the colon) into the water to be ionized and tested the live bacilli counts before and after.

Original water	Colon bacilli / cc			
	Alkaline water		Acid water	
1400	immediately after ionization	1hour after ionization	immediately after ionization	1hour after ionization
	120	0	120	0

Bacteria that live in neutral water may not live in highly alkaline or acid water.





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# Antioxidant Water System

**RICHWAY WATER IONIZER ALKAL-LIFE<sup>3000SL</sup>**

## Main Specifications

- Certified as a medical device by the FDA of the U.S.A. Government
- Rated voltage: 120VAC
- Rated frequency: 50/60 Hz
- Rated current: 3 A (5 A max.)
- Electrodes: Platinum thick-coated titanium electrode 5 pins
- Water intake pressure: 0.5-7.0 kg/cm<sup>2</sup>
- Unit Weight: 3.5kg
- Unit dimensions: 271(W)×367(H)×138(D)mm
- Calcium lactate injector: Case injection system (Calcium lactate is a catalyst that enhances electrolysis.)
- Water cleaning cartridge service life: Sufficient for filtering residual chlorine from 3000 gallons of tap water. (Actual performance may differ somewhat depending on water quality, but the cartridge lasts about 6 months.)
- Electrolysis tank cleaning: Double auto-change cross-line system
- Protection circuits: 8-A fuse, constant current control circuit, anti-overheating device

## Accessories

- Branch tap connector and adapters
- Water intake hose (1m)
- Drain hose(single type) (1m)
- Phenolphthalein pH indicator fluid (10cc)



Water is the source of life

Antioxidant Water helps enhance the health of all people

## WHY DRINK ALKALINE WATER?

Alkaline ionized water is different from the water we drink. It contains ions, has a different boiling point, viscosity, surface tension, and can enter our body cells three times faster than ordinary tap water. The molecular structure is smaller than that of regular tap water, thereby allowing more hydration and better detoxification.

In general, the water we drink is poorly filtered and exposes us to all kinds of toxins and pollution. On the other hand, alkaline ion water removes impurities, and activates healthy minerals into an ionic form which produces "living water".

Alkaline ion water is a powerful liquid anti-oxidant that readily absorbs into the body, and neutralizes free radicals. Free radical damage causes us to age faster, and is largely responsible for many diseases including cancer.

The alkaline ion water balances and maintains our proper body pH level (6.9-7.2) which creates an environment essential to deterring bacteria, inflammation and disease.

## HEALTH BENEFITS OF ALKALINE WATER

(Hydroxyl ions OH<sup>-</sup>)

Alkaline ion water tastes "wetter". The molecules are much more smaller (6-7 per cluster).

This small cluster size makes the ion water super-hydrating, or more absorbent. Since our bodies will have more water to work with, it can deliver more nutrients to all its parts.

Although this small cluster size enables our bodies to readily absorb nutrients, it is also able to transport nutrients and eliminate the waste within a half hour or 30 minutes (it takes our bodies 2 1/2 hours to do the same thing with ordinary tap water).

If you need a good reason why you should switch to ALKALINE ION WATER, here are three main reasons to consider:

- (1) Alkaline water is a powerful liquid anti-oxidant that is easily absorbed into the body and neutralizes free radicals.
- (2) Alkaline water has ions (lots of them) to balance and maintain a proper body pH (6.9-7.2). This creates an environment that inhibits bacteria, inflammation and disease.
- (3) Alkaline water has a smaller molecule structure.

This facilitates more hydration, faster nutritional intake and better detoxification.



## THE STUDY OF SECRETORY PROCESSES

Nerve cells, as well as hormone-producing cells and cells engaged in the host defense (like mast cells) secrete different agents. They are stored in vesicles enclosed by a membrane. When the cell is stimulated the vesicles move to the cell surface. The cell and vesicle membranes fuse and the agent is liberated. The mast cell secretes histamine and other agents that give rise to local inflammatory reactions. The cells of the adrenal medulla liberate the stress hormone adrenaline, and the beta cells in the pancreas insulin. Neher elucidated the secretory processes in these cell types through the development of a new technique which records the fusion of the vesicle(s) with the cell membrane. Neher realized that the electric properties of a cell would change if its surface area increased making it possible to record the actual secretory process. Through further developments of their sophisticated equipment the resolution finally permitted recording of each little vesicle fusing with the cell membrane.

### Regulation of Ion Channel Function

Neher and Sakmann also used the electrode pipette to inject different agents into the cell, and they could thereby investigate the different steps in the secretory process within the cell itself (see above). In this way a number of cellular secretory mechanisms have been clarified such as the role of cyclic AMP (see Nobel Prize to Sutherland 1971) or calcium ions. For instance, we now have a better understanding of how the hormone levels in the blood are maintained at a certain level. Also the basal mechanisms underlying the secretion of insulin have been identified. The level of blood glucose controls the level of glucose

within the insulin-forming cell, which in turn regulates the level of the energy rich substance ATP. ATP acts directly on a particular type of ion channel which controls the electric membrane potential of the cell. The change of membrane potential then indirectly influences other ion channels, which permit calcium ions to pass into the cell. The calcium ions subsequently trigger the insulin secretion. In diabetes, the insulin secretion is out of order. Certain drugs commonly used to stimulate insulin secretion in diabetes act directly on the ATP-controlled ion channels.

Many other diseases depend entirely, or partially, on a defect regulation of ion channels, and a number of drugs act directly on ion channels. Many pathological mechanisms have been clarified during the eighties through ion channel studies, for instance cystic fibrosis (chloride ion channels), epilepsy (sodium and potassium ion channels), several cardio-vascular diseases (calcium ion channels), and neuro-muscular disorders like Lambert-Eaton's disease (calcium ion channels). With the help of the technique of Neher and Sakmann, it is now possible to tailor-make drugs, to achieve an optimal effect on particular ion channels of importance in a given disease. Drugs against anxiety act for instance on certain inhibitory ionic channels in the brain. Alcohol, nicotine and other poisons act on yet other sets of ion channels. In summary, Neher and Sakmann's contributions have meant a revolution for the field of cell biology, for the understanding of different disease mechanisms, and opened a way to develop new and more specific drugs.

