

# WATER FICTION AND DANGEROUS MONEY-MAKING SCAMS

By A. True Ott, PhD.

It is time to set the record straight in simple language about drinking waters, and in the process, hopefully save thousands of naïve individuals from not only spending many thousands of their hard-earned dollars on water scams involved with multi-level marketing, but who are also placing their invaluable internal organ chemistry balance in dire jeopardy as well!!

The formula for optimum drinking water is VERY SIMPLE, and VERY BASIC – and that is to consume the PUREST WATER on a DAILY BASIS! The standard measurement of “purity” in drinking water is simply the level of Totally Dissolved Solids, or TDS. The basic science is: the lower the TDS number – the higher the quality of PURITY in the water. Double-pass reverse osmosis (RO) systems can drop the TDS count to as low as 3 ppm (parts per million) while leaving THM’s and other toxins in the water, while a high-quality home distiller can drop the TDS down to less than 1 ppm. (The exception to this rule is a de-ionization filter that produces de-ionized water that shows a TDS count of less than 1 ppm. Water that has been purified through de-ionization cat-ions have also been stripped of their all-important, health-promoting electrons, causing the water to be positively charged, and therefore potentially harmful to the body.)

Steam-distilled water has been scientifically PROVEN to contain the highest amount of H<sup>+</sup> molecules than any other water, and this is because it is the PUREST of all waters. Hydrogen protons and electrons are the most important, basic elements the human body can consume from a purely nutritional viewpoint. The consumption of hydrogen/oxygen (H<sub>2</sub>+O<sup>+</sup>) protons and electrons is called HYDRATION – (and the lack of H<sup>+</sup> protons and electrons OH<sup>-</sup> is conversely called de-HYDRATION!) The secret of proper hydration then, is basically to consume water that contains the highest levels of these protons and electrons. This paper should help even the most naïve individual understand the basic science of water and hydration.

Recently there has been a lot of talk about the “unique and health giving benefits” of something called **Kangen water**. This interest in

**Kangen water** coincided with the push into the so-called **alkaline water** market by the MLM (Multi Level Marketing) company named **Enagic**. This article is written with the intention to address some of the clear fallacies that has been said on other web sites and in public meetings, so that customers wanting the scientific facts are able to make an informed and educated opinion about "**Kangen water**" as well as other "ionized water machines" without the "get-rich-quick" hype of MLM marketers.

Attention all people concerned about their long-term health and fitness ----- THESE ELECTROLYSIS "DEVICES" ARE PRACTICALLY WORTHLESS as far as treating water for human health enhancement, is concerned!! One cannot improve upon naturally 100% pure water for human consumption. This is simple, self-evident logic – wouldn't you agree? (If you don't fully agree, then keep on reading with an open mind, please!)

All water contains both  $H^+$  (aka Hydronium) and  $OH^-$  (aka Hydroxyl) ions to some degree. When  $H^+$  and  $OH^-$  ions are in equal states, the pH of the water is "balanced" at 7.2 on the pH scale. This typically occurs when the TDS count of the water is around 50 ppm. As TDS contaminants are removed, the water NATURALLY increases its  $H^+$  and  $O^+$  ion counts, and thus becomes naturally more ACIDIC as it is purified from contaminants. (Keep in mind that pH is the measurement of the percentage or parts of pure hydrogen ELECTRONS ( $H^+$ ) in the water. Low pH means High  $H^+$  ions)

Because pure and healthy distilled water is largely devoid of most harmful contaminants while exhibiting large amounts of  $H^+$  and  $O^+$  molecules (which have a negative electric charge because they are not missing protons and electrons) IT CANNOT BE AFFECTED BY ELECTROLYSIS MACHINES SUCH AS KANGEN (thank God)! For "electrolysis" to occur to any extent, additional "contaminant" ions must be present in the water in order to transport the electrolyzing current. Since we consume water PRIMARILY for its hydrogen and oxygen molecules with protons and electrons intact (remember the definition of HYDRATION?) ----- WHY SHOULD ANYONE DESIRE TO CONSUME "ELECTRIFIED" IONS OF SPECIFIC AND HARMFUL CONTAMINANTS which may include dangerous ammonium perchlorate (aka rocket fuel), tri-halo-methanes caused by

chlorine reactions with humic/fulvic acids (THMs are powerful carcinogens that have been linked to cancers), various petrochemical residues as well as sodium fluoride poisons????

In 1923, Danish chemist Johannes Bronsted, and British chemist Thomas Lowry showed that acid (pH of 0 to 7.0) substances on the pH scale are hydrogen ( $H^+$ ) proton DONORS, and base (or alkaline) substances (7.1 to 14) are hydrogen proton ACCEPTORS ( $H^-$ ). These substances become reversed chemically when consumed by the body. In essence, they are either acidic or alkaline by design, but function in reverse upon consumption. When we consume alkaline (base) foods and beverages such as red meats, Kangen water and coffee, we are therefore causing our body's extra-cellular fluids to become acidic (not a good idea). As a result, the cell's oxygen uptake is impaired, and free radicals (atoms having at least one unpaired electron) begin to destroy cells prematurely in their quest for matching protons. Don't forget that "alkaline water" whether electrolyzed or not, is known as hydroxyl or  $OH^-$ . **THIS IS A POWERFUL FREE-RADICAL!!** Conversely, flooding the body with pure, positively charged hydrogen protons (hydronium or  $H_3O^+$ ) in a 100% pure, aqueous form (distilled water), causes the all-natural elimination of these potentially deadly free radicals and allows the cell to perform its very extensive chemical production manufacturing.

Technically speaking then, pure water such as steam-distilled water, has a pH measurement of around 5.8 precisely because of its high positive hydrogen content, and is actually known scientifically as hydronium. The base logarithm for hydronium is:  $pH = -\log [H_3O^+]$ , while high TDS water (electrified or otherwise) with a base measurement above 7.8 is known technically as hydroxyl and its formulation is  $pOH = -\log [OH^-]$ . (See Bronsted-Lowry Theory, as well as Arrhenius-Ostwald Theory.)

In layman's terms, pure organic acids such as are found in distilled water are loaded with life giving hydrogen ( $H^+$ ) molecules, which the body must have in order to successfully *hydrate* the cells. This is why highly acidic lemon and lime juice and pure apple cider vinegar has been so successful for many years in elevating the body's extra-cellular pH, and in turn explains why raising the body's extra-cellular

pH may help to alleviate over 150 deadly diseases that are plaguing modern man today. Cancer cells cannot survive in a pH balanced body where free-radical activity is slowed, and heart disease, the #1 killer in America is likewise related to high body acid counts as well. Consuming pure distilled water on a daily basis may help the body eliminate the formation of free radicals, and will absolutely help to balance the pH of the body in a major, totally natural manner. This “sweet-water” is also much better tasting than sour-tasting apple cider vinegar and lemons.

## STOMACH ACID ANALYSIS

One of the miracles of the human body is the process of digestion. The human stomach contains a substance called Hydrochloric Acid, or HCL. As the name implies, HCL is composed primarily of Hydrogen (H<sup>+</sup>) ions and Chloride (Cl) ions. This is an extreme acid that is always present in a healthy human stomach, and HCL in a healthy stomach has a pH of around 2.8 (similar to battery acid). When food or drink enters the stomach, this HCL acid immediately changes the food to a semi-liquid state that in turn allows the intestinal tract to more effectively absorb proteins and carbon ions into the blood. When a person is chronically dehydrated, the HCL of the stomach becomes less and less acidic and enters the base, or alkaline state. Keep in mind this SIMPLE TRUTH – the human body desperately needs H<sup>+</sup> molecules in order to maintain the HCL acidity at optimum levels. When the HCL becomes buffered and increasingly alkaline (from a lack of pure H<sup>+</sup> ions) and is unable to adequately break down food, the body tries desperately to produce H<sup>+</sup> (acidic) ions to compensate. This is the root cause of so-called acid indigestion or acid reflux symptoms. The individual suffering thus from **chronic dehydration** then of course turns to ALKALINE “ANTACIDS” (often prescription-strength) to neutralize the body’s innate attempts to increase the natural acidity of the HCL. While this may result in SHORT-TERM relief from “acid-reflux” the LONG-TERM result is inevitably colon-rectal impaction from undigested meat proteins, extensive food-allergies, and of course – colon-rectal CANCER.

This scientifically-proven truth, from a purely NUTRITIONAL worldview, is the single biggest danger of consuming “alkaline”

waters produced by ignorantly wacko pseudo-science promoters such as Kagen. Yes, consuming electrolysis-induced “alkaline” water will most definitely eliminate “acid reflux” symptoms – but one must understand exactly how this is accomplished. The HCL balance in the stomach is compromised, and as a direct result, the body has a tremendously increased risk of developing a long-term nutritional deficiency and disease state. Is it not better to provide the natural elements the body needs ( $H^+$  ions) to repair the HCL pH, instead of covering-up the symptoms??

## OTHER IMPORTANT REFERENCES FROM SCIENTISTS:

From Professor Stephen Lower's fine website: <http://www.chem1.com/CQ/ionbunk.html>  
(I recommend reading the entire website, actually!)

The fables	The facts
"Ionized water" machines actually bring about the electrolysis of ordinary water.	If the water is pure enough to be potable, the amount of electrolysis that actually occurs is too small to be significant.
These devices separate the alkaline water (produced at the negative electrode) from the acidic water (produced at the positive electrode), allowing you to draw them off separately.	This will not work with pure water because it is physically impossible to have water that contains an excess of OH <sup>-</sup> (alkaline) without the presence of a charge-compensating metallic ion such as Na <sup>+</sup> or Ca <sup>2+</sup> . Similarly, any water that is acidic (excess H <sup>+</sup> ion) must contain a compensating impurity ion such as bicarbonate or sulfate. Thus ordinary drinkable water which contains only very low concentrations of metal ions will yield only weakly alkaline solutions.
Alkaline water is important for maintaining proper body pH and preventing acidosis.	<p>The pH of intracellular bodily fluids such as blood is controlled by an exquisitely-balanced set of reactions involving removal of (acidic) carbon dioxide through the lungs, removal of (alkaline) ammonia through the kidneys, and the buffering action within the blood by bicarbonate, and to a smaller extent by phosphate and certain proteins. In the most important of these mechanisms, carbon dioxide produced by cell metabolism reacts with water to form carbonic acid H<sub>2</sub>CO<sub>3</sub>, and this reacts with carbonate in the blood to form bicarbonate</p> $\text{H}_2\text{CO}_3 + \text{CO}_3^{2-} \rightarrow 2 \text{HCO}_3^-$ <p>which is carried by the blood to the lungs, where the carbon dioxide is then regenerated and expelled:</p>

	<p style="text-align: center;"><math>\text{H}_2\text{CO}_3 \rightarrow \text{CO}_2 + \text{H}_2\text{O}</math></p> <p>The pH of blood is especially critical and must be maintained within the range of about 7.35 - 7.45. If the blood pH falls outside this range the condition is known as acidosis or alkyllosis. Temporary acidosis can be induced by holding your breath, preventing release of <math>\text{CO}_2</math>. Temporary alkyllosis can be induced by hyperventilation, causing excess release of <math>\text{CO}_2</math>. Chronic acidosis or alkyllosis can be very serious and is often associated with kidney failure.</p> <p>The pH of ordinary drinking water will have little effect on the pH of the stomach contents because gastric fluid has an overwhelmingly low pH (Gastric fluid is essentially a dilute solution of hydrochloric acid.) Hundreds of millions of years of evolution have adapted humans to tolerate drinking waters having a fairly wide range of pH (5-8). Any water that is sufficiently alkaline to significantly affect gastric pH is unlikely to be considered potable by most people. Further, the enzymes that digest proteins in the stomach require a low pH in order to function properly, so if one were to ingest sufficient alkali to reduce gastric pH, it would also interfere with digestion.</p> <p>If you really want (or need) to reduce gastric acidity, products such as Milk of Magnesia or Alka-Seltzer are cheaper and more effective than "water ionizer" machines. But bear in mind that acidosis and alkyllosis are serious conditions that require medical intervention and can be properly diagnosed only by measurements of blood electrolyte and <math>\text{CO}_2</math> content.</p>
The oxygen produced during electrolysis invigorates the body.	<p>The amount of oxygen that water can hold is very limited, and it is not significantly absorbed by the gut anyway. You can acquire far more oxygen by just taking an extra breath. For more on the myth of oxygenated waters, see the <a href="#">OxyScams</a> page.</p>
"Ionized water" acts as an effective antioxidant and free-radical fighter, and can even halt or reverse ageing.	<p>There is no reason to believe this. Some sales sites reveal their ignorance of chemistry by stating that the enhanced oxygen content causes the water to act as an <i>anti-oxidant</i> (any high-school chemistry student should be able to debunk this one!) It should also be pointed out that evolution has allowed our bodies to develop anti-oxidant enzymes such as peroxidase that are millions of times more efficient than anything that an electrolysis device could produce even if it did work! Finally, although anti-ageing nostrums are widely marketed to the notoriously credulous seekers of alternative-health products, there is absolutely no evidence that any of these is effective; See <a href="#">The antioxidant myth: a medical fairy tale</a> that was published in the 5 August 2006 <i>New Scientist</i>.</p>

Adding to the confusion is the practice of some vendors to incorporate some of the false and misleading claims regarding structured or "clustered" waters with the standard ionization bunk; [see here](#) for an example.

Typing "ionized water" into any Web browser will yield hundreds of hits on outfits offering to sell you this worthless quackery. [One of the most egregious sites](#) promotes "the Alkalarian approach to optimal living" and "the pH miracle for weight loss" together with nonsense about microscopic blood examination.

For those who still mistakenly cling to the false belief that electrolysis ionizers are valid, then consider that Kagen may be WAY over-priced and over-hyped (remember, a quality home-distiller that truly clears the water of CONTAMINANTS can be yours for less than \$1,000):

[http://www.compareionizers.com/?engine=adwords!1896&keyword=%28water+ionizers%29&match\\_type=](http://www.compareionizers.com/?engine=adwords!1896&keyword=%28water+ionizers%29&match_type=)

## KANGEN/ENAGIC vs JUPITER vs LIFE IONIZER

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Kangen / Enagic vs LIFE vs Jupiter vs Gold Fox Water Ionizers



FEATURES	Life 5000	Life 7000	Mavello	Microlite
Alkaline / Acid Output Levels	2.6 to 11.3 Actual Tests	2.6 to 11.3 Actual Tests	4.0 to 10 + Est.	4.0 to 10 + Est.
Filter Type	Dual 12 stages	Dual 12 stages	Single	Single
Chlorine removal	1. Block 2. Granular & 3. Silver*	1. Block 2. Granular & 3. Silver*	1. Silver	1. Silver
Installation	Diverter & Direct	Under Sink**	Diverter	Diverter
Year Introduced	2004	2006	2002	2003



FEATURES	Melody	Orion / Aquarius	Enagic / Kangen	Gold Fox
Alkaline / Acid Output Levels	4.0 to 10 + Est.	4.0 to 10 + Est.	2.5-10.8	9.5-10+ est.
Filter Type	Single	Single	3 layers	Single
Chlorine removal	1. Silver	1. Silver	1. Silver	1. Silver
Installation	Diverter	Diverter & Under Sink	Diverter	Diverter
Year Introduced	2003	2003	2006	
Warranty	2003	2006		

\* Multiple types of carbon increase the chlorine and contaminant removal capability of the filter.

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	VS	
KANGEN		LIFE WATER IONIZER 5000

### KANGEN VS. LIFE IONIZER Test Conducted on 2-24-07

ALKALINE WATER	LIFE IONIZER 5000	Kangen LeveLuk SD 501
pH	11.4	10.8
Oxidation Reduction Potential	- 806	- 320

ACIDIC WATER	LIFE IONIZER 5000	Kangen LeveLuk SD 501
pH	2.3	2.3
Oxidation Reduction Potential	+1123	+1023

### LIFE IONIZERS

All ionizer manufacturers claim their ionization process is superior to others because of the composition, amount and/or size of the electrolysis plates inside. The only real way to determine the efficacy of a water ionizer is through its performance, which can be determined by testing the pH and Oxidation Reduction Potential for both the alkaline and acidic water produced.

The key to obtaining a true "Apples to Apples" comparison is to perform tests on water coming from the same source.

Side by side tests were conducted on the Kangen LeveLuk SD 501 and the Life Ionizers 5000 using tap water from Carlsbad , California . The Kangen ionizer used was only a few weeks old and the Life Ionizer 5000 has been heavily used in our corporate headquarters for over five months. Based on the results, the Life Ionizer 5000 is clearly superior to the Kangen ionizer with six (6) times the alkalization and much stronger ORP (251% stronger). We want to make it clear that the results of any ionizer will depend upon the source water. The source water can vary from hour to hour as the base pH and ORP ratings are affected by the minerals and chemicals in the water and those can change at any time. Another point is that pH is measured with the logarithmic scale so the difference between a pH of 8 and a pH of 9 means that the latter is ten (10) times stronger.

With all that said, the bottom line is that the LIFE Ionizers give you:

- Highest pH
- Twin Filters
- Undercounter Units
- Patented "TCS" - the Triple Chamber System for optimum results

Call our trained water experts on staff now at (800) 699-3475  
or email [WaterExpert@HealthStores.com](mailto:WaterExpert@HealthStores.com) with any questions.

The best news is that the Life is less than half the price of the cheapest Kangen ionizer and also available in an under counter model too!

**Myth One:** Kangen water is different from alkaline, ionized water.

**Fact:** The word "Kangen" in Japanese means "return to origin" and is simply a marketing term. The Enagic water ionizer contains a filter and ionizing chamber just like all other alkaline water ionizers. Also Enagic ionizers create the same type of alkaline and acidic water as created by all other water ionizers. The ionizing chamber in the Enagic uses the same technology as do all other water ionizers to split the water into acid and alkaline streams. Kangen water is simply another name for ionized, alkaline water . Nowhere will you be able to find a definition of Kangen water that is different than alkaline water because there is not any.

In trying to make a difference where there is none, an Enagic representative's web site says, "technically, in order to be classified as Kangen water, it needs to show a negative ORP in the range of -200mV to -450mV, while typical Ionized Alkaline Water shows anywhere between +100mV and -100mV, depending on the quality of the machine". The cheap copy ionizers from China can get at least a -100mV ORP reading and LIFE ionizers can get over -800mV.

That been said, Enagic through its MLM is doing a fantastic job of introducing the concept of alkaline and acid (kangen) water to people who would otherwise not know about it.

**Myth Two:** Kangen water is better than alkaline, ionized water.

**Fact:** There are two ways the quality of kangen or alkaline water are measured - by how acid or alkaline the water becomes (pH) and by how much ionization occurs (ORP).

Independent tests carried out by ex-Enagic representatives (concerned about the high prices been charged), showed that the LIFE Ionizers produced higher ORP (negative ionization) than the Enagic model and when salt was added to the LIFE 3000, it produced a stronger acidic water than that achieved by the Enagic.

Unfortunately when there are very high prices there is also a need to justify the difference - hence the hype such as in the following from an Enagic distributor: "This water technology is practically non-existent outside Japan. ... Even worse, there are some people who are trying to sell cheaper Ionized Alkaline Water machines as if they were at the same or a similar level as with the Kangen Water machines, only cheaper."

**Myth Three:** Enagic units and Kangen water are recognized and approved by the Japanese Health Department, unlike other ionizers.

**Fact:** In the 1980s the Japanese Health Department recognized that ionized alkaline water (Kangen water) from water ionizers had proven health benefits and described water ionizers as health devices. Nowhere did any Government say specifically that Enagic units were the ones approved. Below are examples of comments from an Enagic web site and ones that are often voiced.

"The Enagic is approved by The Japan Ministry of Health, as a top quality medical device" or "Enagic units and Kangen water are recognized and approved by the Japanese Health Department". Major corporations in Japan such as Hyundai, LG and Samsung all have approval from the Japan Ministry of Health.

**Myth Four:** Well known authorities on ionized water endorse or recommend Enagic ionizers.

**Fact:** The best known authorities in the USA such as Dr. Robert Young (author of The pH Miracle), Dr. Theodore Baroody (author of Alkalize or Die), and Sang Whang (author of Reverse Aging) all recommend and sell Jupiter Science or LIFE water ionizers because they want to give their customers high quality kangen or alkaline water ionizers at an honest price. Other well know alkaline authorities that endorse water ionizers include Daniel Reed (author of The Tao of Detox), Harald Tietze (author of Youthing) and Ian Hamilton (author of The Untold Truth...) - none of them mention Enagic. If Enagic is such an old established, reputable company offering technology that is so much better than what other ionizer companies can offer for much less - then where are their credible spokespersons?

**Myth Five:** Kangen or Enagic ionizers cost more because they are better.

**Fact:** The LIFE 6000 and the LIFE 5000 are priced between \$1195 & \$1895 and offer some important user friendly features that are missing with the Enagic. Certain alkaline water ionizers are better and stronger than others and the Enagic range are decent models, but when you have a MLM company that pays eight levels down you have to create an artificially high price because Enagic and up to eight representatives need to make money from every single sale.

Enagic products are sold by MLM "reps" who typically do not have a thorough technical understanding of the properties of water, ionization and how the two together produce health benefits. There are exceptions; reps who have really rolled up their sleeves and educated themselves, but the fact remains that there is a lot of "bogus" information fed to people who have been to Enagic presentations. Going to a few MLM presentations does not make one an expert in something, especially something as complex and technical as ionization. Enagic "reps" are often innocently fed misinformation and led to believe in half truths.

Then these misinformed "reps", who are motivated by the MLM dream, go forth and perpetrate these inaccuracies and mislead naïve customers into falsely thinking they are getting something of good value. The price of Enagic models has more to do with compensating the Enagic MLM reps than the actual cost or the comparative technology inherent in their ionizers. To verify that, simply ask Enagic about their compensation plan and see how much money is paid to the various levels of the network organization when one machine is sold.

**Myth Six:** Enagic has been marketing "Kangen water" for 30 years.

**Fact:** What became the Enagic brand was initially manufactured by Toyo Metal a/k/a Toyo Aitex who recently sold marketing rights to Enagic (also called the Thohan Kiden organization). *Toyo Metal* water ionizer were called the Apex, Pure Porte 11 or Protec units and these early models were manufactured by and sold for less much less than \$1000 in the USA. A company called HydroAnalytics previously imported, distributed and did hands-on repairs on this unit from Japan for the US, Western Hemisphere and European market before it was withdrawn from the US market, presumably due to lack of market penetration. In Japan the Thohan Kiden organization manufactures units, that are not sold through the Enagic MLM, for similar prices to other alkaline water ionizer in the US market. When you see so many mis-representations and falsehoods, this brings doubts to all statements issued by the Company itself and the MLM dreamers who want you to buy and sell their over priced ionizer.

### Here are some points to consider in comparing Enagic to Jupiter and LIFE Ionizer:

- **Filtration:** Jupiter's Biostone filtration system is available in 1 micron and .01 micron levels of filtration. Both options have coral calcium and tourmaline to improve performance (Enagic does not have a .01 Biostone or the Calcium or Tourmaline). The LIFE ionizers offer two (2) filters with 12 stages of filtration for the highest level of purification available. They also come with a free water analysis, report & recommendations. Also included are a pre-filter to remove chlorine before it even enters the ionizer. LIFE even includes the pre-filter housing and has filters available to remove any impurities in your water.
- **Installation:** the Melody can be installed three ways including undersink, unlike the Enagic. The LIFE ionizers can be installed three ways: The LIFE 5000 installs on the counter top and can connect to the faucet or the line can go thru the counter top and connect below. The LIFE 7000 is designed to be an undercounter unit with its own faucet with two spouts and all controls on the faucet.
- **Functionality:** the Melody and the LIFE 5000 have increased functionality in terms of a flow control valves that operates independently of the tap (Enagic is only controlled by tap). Jupiter's two latest models (better quality than the Melody) have a fully automatic valve system. The more advanced Jupiter and LIFE models also have an LCD control panel screen which has various readouts and alarms.
- **Performance:** the Melody in side by side comparisons is at least equal to the Enagic Levelluk DX II. Jupiter's latest two models the Aquarius and Orion, being stronger than the Melody, will most likely outperform Enagic (not tested yet against Enagic). The LIFE ionizers outperform the Enagic ( see chart below ).
- **Cutting Edge Technology:** Jupiter's and LIFE's latest models have new patented features to further distinguish them in value. Features like:
  - Jupiter's new mesh plating (increases surface area of electrode creating a stronger kangen water). This means that Jupiter is able to achieve a higher ORP and pH output without having to increase the size of the plates. Larger and more plates means more electricity and more wear. Life's patented three (3) chamber system creates the highest pH and - ORP of any machine.
  - Jupiter's new patented SOL automatic valve system to optimize ORP at lower levels of pH (Enagic doesn't have a valve other than the tap!). Life's "micro-dial" system allows for fine tuning of pH and ORP levels.
  - The Orion & Aquarius have the new patented DARC cleaning system which eliminates mineral deposits ensuring more power and longer plate life. The LIFE ionizers are also designed and optimized to operate in hard water.
  - **Manufacturing Standards:** Jupiter's parent company makes Medical Equipment and Jupiter has been manufacturing ionizers since 1982. Who owns Enagic and what is their background? Jupiter manufactures in a state of the art ISO 9001 certified and ionizer-dedicated plant (they do not make anything else). ISO is the world-recognized certification for quality standards in manufacturing (see: [www.iso.org](http://www.iso.org)). Certification is very expensive and time consuming. Jupiter products are additionally CE, UL and RoK2 certified. The LIFE manufacturer is ISO9001 certified, has CSA/UL (CUL) approvals, NRTL, CE approved by TUV and by KMPG (qualified medical device approval by Korean FDA), and has many other patents. The capacity of the plant is 100,000 units a month.
- **Reliability:** LIFE has the lowest return rates for service in the industry (less than 2%). When something does need repair, the repair facilities are in the USA ensuring prompt service.
- **Good Looks:** Jupiter machines (particularly the latest models) are sophisticated, stylish and contemporary

looking. The LIFE 7000 is the only true undercounter ionizer designed with its own faucet on the counter top.

- Support: All LIFE Ionizer units come with a half hour DVD that shows how to install and get the best kangen or alkaline water out of your ionizer. Professional, trained staff are available to answer any questions for both all LIFE Water Ionizers.
- Value: When you buy from LIFE you buy top quality at an honest, retail price.

