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Alkaline Ionized and Hydrogen Rich Water Purification System Installation and Service Manual



949 485-8652

www.ecowaterhouse.com







Manufactured and assembled in the USA by Eco Waterhouse Technologies

PLEASE READ CAREFULLY THIS INSTALLATION MANUAL AND FOLLOW THE INSTRUCTION BEFORE PROCEEDING TO THE INSTALLATION.

Pay particular attention to all the cautions, warnings and notes. Failure to do so could result in personal injury, equipment or other property damage.

Be sure to follow any special plumbing codes in your local area.

Check List:

- 1. Reverse Osmosis system
- 2. Water storage tank
- 3. Faucet
- 4. Installation kit: manual, tank ball valve, drain saddle valve, feed water valve, faucet connection, color coded tubing.





Recommended Tools List

- · Variable speed drill
- 1/8" and 1 /4" drill bits, 7 /16" drill bit
- 1/2" and 9/16" open-end wrench or adjustable wrench
- Utility knife
- Teflon tape

WARNING

- 1. Do not use this RO system to purify non-drinkable sources of water that are unsafe or with water of unknown quality
- 2. Never use hot water or allow unit to freeze
- 3. Incorrect installation will void the warranty

NOTE: FLUSH YOUR NEW ALKALINE/IONIZED WATER SYSTEM AFTER INSTALLATION.

After your Alkaline/Ionized water system is installed, please wait about 30 minutes, to fill water holding tank. Open slowly system faucet and let water go for about 5-10 minutes, than close system faucet.

After 2 hours when storage tank is full, open system faucet again and let water run for about 10 minutes, close system faucet. This step could be repeated if air bubbles are present in the filtered water. It's safe to drink water with air bubbles. Repeat system flush if needed.

It takes up to 2-3 weeks to flush out all air from inside the system.



Water pH adjustment valve location



pH can be adjusted from 8.5 pH to 9.5+ pH.

PRESSURE TANK

Twelve stage R0 system iltration process

Specification

Stage	Description	Service Life
1st stage	Pre-carbon filter, 10"	24 months
2nd stage	Pre-carbon filter, 10"	24 months
3rd stage	Reverse Osmosis membrane I	36-60 months
4th-8 stage	Ionizer-Hydrogen cartridge	12-18 months
9th-12 stage	Alkaline-Post-Carbon cartridge	12-18 months

Easy to make a connection





Push up to pipe stop.

Pull to check secure. Test the system before use.

To disconect, ensure the system is depressurised. Push the collet towards the fitting and remove the pipe. The fitting can be reused.

Steps to install the water filter: 1-cold water connection, 2-drain pipe connection, 3-faucet connection.

Step 1A. Disconnect existing cold water riser tube, and insert adaptor assembly.















- Step 1C. Connect red tube to water valve connection, tighten to the end. No Teflon tape is needed (top and left picture).
- Step 1D. Connect cold water supply red tube to the filter as shown below.





Step 1E. Assemble the tank ball valve. Wrap the thread 10 times with Teflon tape. Next connect yellow tube to water tank and filter and blue tube to white cartridge and faucet.



Step 2. Connect to drain line. Drill ¼" hole below top of the pipe, at 45deg. angle. Align the pipe hole with drain saddle. Use drill bit or other narrow straight object (screw, large nail) to properly align two holes. Tighten the two screws evenly. Connect black tubing to drain clamp. Make sure that flow restrictor located inside black tube is from filter side.



Step 3. Connect blue tube and faucet, as is shown on the picture above. Do not overtight plastic connection to metal tube.



Faucet Installation

1. Install the faucet

- a. Determine the best location for your RO faucet on your sink surface.
- b. Place a piece of masking tape or duct tape on the determined location where the hole is to be drilled.
- c. Use a variable speed drill at the slow speed with a 1/8" drill bit approved for the sink material. Drill a centering hole in the center of the desired faucet location. Use the lubricating oil to keep the drill bit cool while drilling.
- d. Enlarge the hole using a 1 /4" drill bit. Use factory approved method or approved plumbing practice to drill hole in sink.
- e. Enlarge the hole to 7/16" diameter. Keep bit well oiled and drill slowly.
- f. Pass the escutcheon base plate and large rubber washer in the order over the threaded mounting tube at the base of the faucet.
- g. From under the sink, install the large metal or plastic locating the washer and the star washer over the threaded stem. Screw on the nut and tighten.
- h. Over the blue tubing, install brass compression nut and plastic sleeve (do not use the brass one), then install plastic insert
- i. The spout is 360 degree swivel.



Please see <Fig. 1> and <Fig. 2>



<Fig. 1>

2. Tapping into COLD water line

- a. Locate the cold water angle shut off valve underneath the sink and turn it off. Open the cold water faucet to release the pressure. On single handle faucet, the hot water may need to be turned off to prevent ay hot water cross over. If water continues to come out of faucet with angle valve turned off, the house main will be to be turned off. Care must be taken for appliances that may be damaged by an interrupted water supply.
- b. Locate feed water adapter. The angle valve should be installed into slip joint adapter before assembly is connected to the feed water line.
- c. Teflon tape must be used on angle valve to prevent leaks.
- d. Disconnect the cold water riser tube and install the slip joint adapter.
- e. Please follow by <Fig. 4> for flex line and solid copper riser installation
 Flex line: Loosen nut and separate cold water riser tube from faucet shank.
 Gently bend riser tube so that slip joint fits onto faucet shank. Replace the existing cone washer with new washer provided in installation kit onto cold water riser tube. Reinstall riser tube onto slip joint adapter and tighten
 Solid copper riser tube: Procedure as flex tubing except you must cut a piece of the riser tube about ³/₄" or 1" so the slip joint adapter can fit between faucet and riser tube (Teflon tape must be used on slip joint adapter to prevent leaks).
- f. Connect red tubing to angle needle valve.



THE WATER SUPPLY TO YOUR UNIT MUST BE FROM THE COLD WATER LINE. HOT WATER WILL SEVERELY DAMAGE THE RO UNIT

3. Mounting the tank ball valve

- a. Unplug the plastic cap on the top of the tank.
- b. Wrap the thread 3 times with Teflon tape only.
- c. Connect the ball valve to the thread. Make sure it is tight but not over tight. See <Fig. 5>
- d. Connect the yellow tubing to the tank ball valve. Turn the tank ball valve off.





4. Mounting the drain clamp

The drain clamp will fit most standard drain pipe 1-1/4". It should be installed above the trap and on the vertical tailpiece. See <Fig. 6>

- a. Position the drain saddle in desired location, mark spot through thread outlet, remove saddle.
- b. Drill $\frac{1}{4}$ " (6.3mm) hole into the drain pipe above the water line of trap.
- c. Align the hole drilled in the drain pipe with the drain saddle using a drill bit or other narrow straight object and tighten clamp.
- d. Make sure to align drain saddle to drilled hole. Attached drain saddle to drain pipe and tighten the two screws evenly. See <Fig. 7>.
- e. Connect black tubing to drain clamp.



TANK SHOULD HAVE A PRE-CHARGE AT 5-7 PSI

5. System starts up

- a. Turn on the cold water supply and the under sink feed water valve but close the tank ball valve.
- b. Open RO faucet for continuous flow.
- c. Check system for leaks, tighten as necessary.
- d. After 10-30 minutes, the water will start to drip out of the RO faucet. Let it drip for about 10 minutes and then flip the handle to the closed poison. Turn on the tank ball valve now. It will take 2-3 hours to fill the storage tank.
- e. You will hear the water stop after the tank is full.
- f. Check leaks daily for first week and periodically thereafter.
- g. You may notice that the water may be milky colored during the first week. It is the air bubble in the water. It is normal and safe.

Note

- 1. Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system. Systems certified for cyst reduction may be used on disinfected water that may container filterable cysts.
- 2. This reverse osmosis system contains a replaceable component critical to the efficiency of the system. Replacement of the reverse osmosis component should be with one of identical specifications, as defined by the manufacturer, to assure the same efficiency and contaminant reduction performance.
- 3. Do not use this RO system appliance to purify non-drinkable sources of water that are unsafe or with water of unknown quality.
- 4. Never use hot water or allow unit to freeze.
- 5. Incorrect installation will void the warranty.

Cleaning Procedures

The following system and tank cleaning procedures are recommended every 12-18 months.

- 1 Shut off the source water supply to the RO system.
- 2. Open the RO faucet and depressurize the RO system and storage tank
- 3. Remove pre-filter, post filter and RO membrane. Discard or prepare for clean. If the RO membrane element is to be reused, disinfectant solution should be introduced into the permeate tube outlet sufficient remove biofilm in this vulnerable area, before reinserting the membrane into the housing.
- 4. Wash the internal housing areas with warm soapy water using a clean brush (do not scratch the surface of the housings). Be sure to clean o-ring grooves thoroughly. Remove the exiting o-ring. Discard o-ring or prepare for cleaning.
- 5. Rinse off all the housing pieces with clean water to remove soap.
- 6. Replace o-rings, and lubricate per manufacture's instruction.
- 7. Pour recommended amount of disinfection solution into each of the clean housings and replace housing on the RO system.
- 8. Disconnect RO storage tank from the system.
- 9. RO storage tank cleaning procedure:

a. The tank should be empty. Check the air pre-charge pressure with an accurate gauge (low pressure type 0-12 lbs). The average tank pressure should be 8-10 psi (when the tank is empty).

b. Fill the tank sanitizer feeder with the recommended disinfectant dosage, and connect the feeder to the water supply and RO storage tank

c. Turn on water supply and force water and disinfectant solution into the RO storage tank. The storage tank should feel heavy when filled.

d. The disinfectant solution should remain in the tank a minimum of 10 minutes. Turn off the water supply valve and the RO storage tank valve. Disconnect the sanitizer feeder and connect the RO storage tank to the RO unit (the tank ball valve should remain closed).

- 10. Open the feed water valve and open the RO faucet until water flow freely from the spout. Close the RO faucet. Hold the disinfectant solution in the RO system, including the tubing and faucet, for a minimum of 10 minute. Open the tank ball valve.
- 11. Shut off the feed water valve and open the RO faucet. Let water run out until the flow stops at the RO faucet.
- 12. Open the feed water valve. Let water flow freely from the faucet for about 3 minutes. Shut off the water at the source water supply with RO faucet open.
- 13. When the flow of water has stopped at the RO faucet, remove the filter housing sumps and membrane housing from the RO system. Replace the filters and membrane according to the service life.
- 14. Replace the housing on the RO system. Open the source water valve and allow the water to flow from the faucet.



Because some of the disinfectant solution may still be in the system, the system should be flushed prior to using the water human consumption. A maintenance record should be kept for the RO system, including information about

the replacement parts, when service was performed and by whom. It is recommended that you completely drain the RO tank every month

Preventive maintenance

These recommendations are intended for maximize efficiency of RO water production by your system.

1. Filter maintenance

a. It is OK to store the filters on the shelf for several years.

b. To store the sealed, unopened filter, we recommend that it be kept in an air-tight container. This prolongs the shelf life of the carbon filter (particularly filter was ordered more than one year before its intended use) and avoid having the filter absorb any possible odor from the air.

2. Membrane maintenance

a. The dry packed membrane usually has a two-year shelf life. To prolong the shelf life, we recommend keeping unopened dry membrane in a refrigerator.

b. Once the membrane is in use, we recommend running the RO system every day for at least 10-15 minutes (about 1 gallon or 1 liters of drinking water). This helps to maintain the membrane performance.

c. If the RO system is not used for over a week, drain the storage tank first. Then fill the tank and drain it twice. Your RO system is now ready to use again.

3. Filter and membrane change procedures

a. Shut off the water supply.

b. Turn off the tank ball valve by turning it 90 degrees.

c. Open the RO faucet to the continuous flow position and drain the tank completely.

d. Slid in the housing wrench. Use one hand to hold the system and the other hand to turn the wrench clockwise to open the housing.

Note: if it is too tight to open the housing you may try unplugging the fitting between red tubing and the system in order to reduce the air and water pressure inside the housing.

- e. After opening the housing, remove the used filter and put the new filter into the housing. Make sure the O-ring is back in place and turn the housing counter-clockwise to close.
- f. Repeat previous step to change the second filter.
- g. Turn on the water supply and make sure there are no leaks.
- h. Let the water drip from the faucet for about 10 minutes. If the water flow is less than 1 cup (8 oz. or 240 ml) per minutes, it may be a single to change the membrane.
- i. Membrane change procedures

Unscrew the membrane housing cap

Slide out the used membrane and discard/

Insert the new membrane into the housing. The end with the two o-rings should go in first. To prevent leaks be sure it is fully seated in the bottom of the housing. Screw the cap back onto the membrane housing, making sure o-ring is still in place.

It may take 10-20 minutes for the new membrane to run at normal flow. If the water flow is OK, then turn on the tank ball valve. After 1 minute, turn off the RO

faucet and complete the filter change procedures.

Trouble shooting

Note: Turn off the system before servicing

Problem	Cause	Solutions
Milky colored water	Air in the system	Air in the system is a
		normal occurrence with
		initial startup of the RO
		system. This milky look
		will disappear during
		normal use within 1 to 2
		weeks
Noise from faucet	1.Air gap faucet	1.Will disappear after
		system shuts down
	2. Location of drain saddle	2. Relocate the drain to
		above water trap
	3. Restriction in drain line	3. Blockage sometimes
		caused by debris from
		garbage disposal or
		dishwasher
Small amount of water from	1. System just starting up	1. Normally it takes 2-3
storage tank		hours to fill tank. Low
		water pressure or low
		temperatures can reduce
		production rate
	2. Air pressure in storage	2. Add pressure to storage
	tank is low	tank. The pressure should
		be 8-10 psi when the tank is
	4 7	empty
Slow production	1. Low water pressure	1. Add a booster pump
	2. Crimps in tubing	2. Make sure tubing is
		straight
	3. Clogged pre-filters	3. Replace pre-filters
XX7	4. Fouled membrane	4. Replace membrane
water taste or smell	1. Post carbon is depleted	1. Replace post carbon
offensive	2. Fouled membrane	2. Replace membrane
	3. Sanitizer not flushed out	3. Drain storage tank and
No droin water	Clagged flow restrictor	Poplace flow restrictor
Looka	Liogged now restrictor	1 Tighton fittings of
	1. rnungs are not ugntened	1. Highlen mulligs as
	2 Twisted a ring	2 Doplace e c ma
	$1 \neq 1$ WISTER OFFILIS	$1 \neq R$ REDUCE A O-THO
	2. Misslignment of hole in	2. Replace a o mig

Alkaline, Ionized and Hydrogen Water System

Drinking water should have a negative ORP measurement of at least -50. Negative value of ORP (Oxygen Reduction Potential) in alkaline water indicates the presence of antioxidant capacity. Tap water and most bottled water have positive ORP, which means that there is no antioxidant capacity and it cannot help the body neutralize the acidity. The higher the pH the lower the ORP.

Our Alkaline and Ionized water filtration systems are able to deliver purified water and true high pH and ORP values. Our filtration systems raise water pH from 6.5 to 9.5 + pH, and ORP from +320 to -250 (depending on local water supply). This alkaline water filters produce truly a Kangen Water without electricity, more than 50 gallons per day.

Our Alkaline, Ionized and Hydrogen Water System is our highest quality 12 stage filter system. Reverse Osmosis Technologies allow for up to 99% removal of all contaminants and the Alkaline Filters increase the pH to an optimal 9.5. The system provides purified and alkaline drinking water without electricity or metal plates. There is no dangerous possibility of leaking metals ions in to purify water. Alkaline and Ionize Water System will hold pH level for many months!

Specifications and standard systems components:

- Stage 1 -5 Micron Sediment Filter : Five micron rating filter is removing dirt, rust, and sand particles.
- **Stage 2** Coconut Activated Carbon Block Filter : It takes out 99% of the chlorine and chloramine and organic chemicals. It provides enhanced reduction of taste, odor, and color.
- Stage 3 Reverse Osmosis Membrane : A Thin Film Composite (TFC) made high quality membrane that processes 50 gallons of water per day. It removes all dangerous water contaminants like; Aluminum, Ammonium, Arsenic, Bacteria, Bicarbonate, Boron, Pyrogen, Bromide, Radioactivity, Cadmium, Radium Calcium, Selenium, Chloride, Silica, Chromate, Silicate, Chromium, Silver, Copper, Sodium, Cyanide, Ferrous, Cyanide, Sulphite, Fluoride, Zinc, Iron, Lead, Insecticides, Magnesium, Detergents, Manganese, Herbicides, Mercury,
- **Stage 4-7** Alkaline Filter : The Alkaline filter changes the acidic RO water into a perfect natural mineral lonized water. The Alkaline filter simply gives back minerals such as ionized calcium, magnesium, sodium, potassium, which were taken away during the purification process.
- Stage 8-12 Mineral Filter : Water travels through special blend of natural and ceramic form of calcium bicarbonate, and magnesium bicarbonate media, and raise the pH level. Bio-Ceramic component (meets NSF, EPA Standards) which primarily consists of different natural minerals and crystals, which negatively ionizes water as it acts like a 'supercharger' (negative Ions from 7,000 EA/cc to 20,000 EA/cc). Because those properties are so powerful, water molecules are broken down to about 5 times smaller than molecules of regular water. Reduces ORP of regular tap water from +360 ORP to -250. It creates KANGEN anti oxidant water, with high negative ORP (Oxidation Reduction Potential).

How Does Alkaline Water Work To Extend Life?

Alkaline water and stomach acid.

We all know that we get old and sick because of excess acid accumulation in our body, and that alkaline neutralizes acid; therefore, drinking alkaline water makes sense. But do we know how alkaline water works in our body? Some doctors say that our stomach acid will kill the alkalinity and, therefore, drinking alkaline water is useless. How do we answer that? Have you thought about that?

This is what happens in the stomach.

The stomach maintains its pH around 4.0. When we drink high pH alkaline water, the water pH comes down; but stomach pH goes up as a result. How high it goes up is a function of the amount and the pH of the alkaline water we drink. When the stomach pH rises above 4.5, the stomach will produce more hydrochloric acid and put it in the stomach to bring the stomach pH down to below 4.0.

How the stomach produces hydrochloric acid is not well known to medical doctors, except pathologists. The chemical formula of hydrochloric acid production is:

H2O + CO2 + NaCl = HCl + NaHCO3

Water, carbon dioxide and sodium chloride (table salt) produce hydrochloric acid and sodium bicarbonate. The hydrochloric acid goes into the stomach, and the sodium bicarbonate goes into the bloodstream.

[Note: An interesting fact is that the formula above looks simple, but no scientist in a laboratory can produce hydrochloric acid and sodium bicarbonate from water and carbon dioxide and salt. Only living cells can do that. In the lab, the reverse is easy: adding hydrochloric acid to sodium bicarbonate will instantly produce water, carbon dioxide and salt.

Sodium bicarbonate is an alkaline buffer in our blood. In our blood, there are alkaline buffer and acid buffer constantly monitoring the blood pH to maintain a constant blood pH of 7.365. When the blood becomes too alkaline, the acid buffer works to bring the pH down; and when the blood becomes too acid, the alkaline buffer works to raise the pH.

Alkaline buffers are bicarbonate (HCO3-) mated with alkaline minerals. Examples of them are sodium bicarbonate (NaHCO3), potassium bicarbonate (KHCO3), calcium bicarbonate (Ca(HCO3)2) and magnesium bicarbonate (Mg(HCO3)2). Acid buffer is mainly carbonic acid (H2CO3), a water and carbon dioxide combination. Carbohydrate completely burnt becomes carbon dioxide (CO2) and water (H2O); therefore there is no shortage of acid buffer.

As we age, starting around age 45, we lose the alkaline buffer – bicarbonates - in our blood. By the age of 90, we lose 18% of bicarbonates in our blood.

Insufficient amount of bicarbonates in our blood reduces our capabilities to manage (neutralize and dump) the acid our body produces. This is the cause of aging. The age of 45 is the average age when human beings start to show symptoms of diabetes, hypertension, osteoporosis and many other adult degenerative diseases. And since we cannot manage the acid, we accumulate acidic wastes in our body. These wastes show up as cholesterol, fatty acid, uric acid, urate, sulfate, phosphate, kidney stones, etc.

Which is the most important property of alkaline water?

There are many properties in alkaline water, such as surface tension, structure of water, molecular size, oxygen reduction potential, pH value, which alkaline minerals are used to sustain the pH value, etc. However, with the exception of the water's pH value, nothing else helps the blood receive bicarbonates. Also, all the other properties change as the water reaches the stomach and interacts with the stomach acid. Even the pH value changes in the stomach. However, the change of pH value causes the stomach to produce hydrochloric acid that goes into the stomach, and the bicarbonates go into the bloodstream. The most important function of alkaline water is to increase bicarbonates in the blood because we lose bicarbonates as we age.

When we say that we alkalize our body, we don't necessarily mean increasing our saliva pH or urine pH; it means increasing the bicarbonates in our blood. The blood pH does not change, but the ability of our blood to neutralize acid in the body increases.

We live in a world that was changed from an agricultural environment to an industrial environment, which produces more pollution. Our stressful life-styles create more acid, which causes us to use up more bicarbonates. Some foods are more acidic than others, especially, high protein meat products and highly acidic soft drinks. These are the reasons why we lose bicarbonates in the blood as we age.

The medical society considers the reduction of bicarbonates in the blood as an inevitable fact of aging. I argue that the reduction of bicarbonates in the blood is the cause of aging and diseases, not the result of aging. As long as we can replenish bicarbonates in the blood, we don't have to age!

This is the good news about alkaline water!

When to drink alkaline water?

Since bicarbonates enter the bloodstream only when the stomach produces hydrochloric acid, it is important that we drink as high a pH value alkaline water as possible. I recommend we drink alkaline water on an empty stomach. On an empty stomach, the stomach pH value may be high but the amount (volume) of hydrochloric acid in the stomach is small; therefore, drinking high pH (9.5 to 10) alkaline water will raise the stomach pH relatively high. That may cause the stomach to produce more hydrochloric acid, allowing more bicarbonates to enter the bloodstream.

Another possibility is that alkaline water may pass into the intestine immediately, since there is no solid food in the stomach to be digested. When that happens, the blood will absorb alkaline water into the bloodstream from the intestine. If alkaline water is introduced directly into the bloodstream from the intestine, the acid buffer (carbonic acid, H2CO3) will interact with the alkaline water to bring down the blood pH and the acid buffer will become the alkaline buffer.

Ca(OH) 2 + 2(H2CO3) = Ca++(HCO3-)2 + 2(H2O)

An increase of bicarbonates in the bloodstream will prevent aging and the onset of adult degenerative diseases. Now you know the scientific mechanics of how alkaline water extends life.

The above example is based on calcium hydroxide-rich alkaline water. This kind of water is produced with a water ionizer because the alkaline mineral in tap water is predominantly calcium.

Only alkaline water can extend your life!

Hydrogen Water Benefits (by Dr. Edward Group DC, NP, DCBCN)



- Powerful antioxidant
- Easily absorbed by your body
- Boosts energy and discourages exhaustion
- Anti-aging promoter
- Protects mitochondrial function
- Combats muscle fatigue
- Helps with skin health
- Provides extra benefits during a water fast

What Is Hydrogen?

Hydrogen is the most abundant element in the universe and is listed as number one on the periodic table. Stars, like our sun, consist primarily of this element. Hydrogen is colorless, odorless, tasteless and non-toxic, and can be found primarily in soil, water, and to a lesser degree, air. Because a hydrogen atom is so small, it can penetrate cells and deploy all of its benefits on a cellular level.

What Is Hydrogen Water?

Hydrogen water, hydrogen-enriched water, or hydrogenated water, is regular water (H_2O) that has been infused with hydrogen particle. This particle raises the concentration levels of molecular hydrogen in water for easy digestibility and immediate penetration in cells, which encourages overall health benefits.

Hydrogen water – also called hydrogen-enriched water, hydrogen-infused water, or hydrogenated water – is just water infused with hydrogen particle.

Many natural springs, now shut down, contained a higher concentration of hydrogen and were used for centuries to help heal certain illnesses. This healing ability is what may have prompted finding ways to infuse water with molecular hydrogen.

What Are the Health Benefits of Hydrogen Water?

Hydrogen water may alleviate symptoms of various conditions and help restore health and vitality.

The health benefits of water are extensive. However, drinking water infused with molecular hydrogen is shown to alleviate symptoms associated with many different illnesses and restore certain aspects of a person's health. More than 700 studies have been conducted regarding molecular hydrogen and its therapeutic effects on health issues – including 170 studies done on humans with various illnesses.

A Powerful Antioxidant

Studies have found that hydrogenated water can enter cellular membranes and function as an antioxidant in your cell's mitochondria. This means that hydrogen water interacts with your body on a molecular level, bypassing the digestive process entirely.

Discourages Cellular Aging

Molecular hydrogen's natural antioxidant and anti-inflammatory qualities make this element a great anti-aging tool.

Suppresses Inflammation

As you age, your cells accumulate cell damage, often from oxidative stress caused by lifelong exposure to the sun and <u>toxic chemicals</u> in the environment. Hydrogen-rich water can reduce cell damage caused by oxidation and reduce or inhibit inflammatory reactions.

Promotes Weight Loss

Hydrogen stimulates gastric leptin and ghrelin, hormones in the body that regulate <u>fat</u> storage, energy, and a number of other metabolic functions. Regular water usage on its own promotes hydration and gastrointestinal tract cleansing, but ingesting water infused with hydrogen can support better digestion and help with the breakdown of unwanted fat.

Resets Healthy Gut Bacteria

Your body makes hydrogen gas in the gut during the digestion process. The typical Western diet, however, lacks the water-soluble fiber needed to break certain foods down to make hydrogen gas. Introducing this much-needed element through hydrogen-enriched water, along with a <u>good probiotic</u>, into your diet can help restore a healthy balance of gut bacteria and encourage or enhance <u>healthy digestion</u> in your gut.

Boosts the Immune System

Sixty percent of your <u>immune system</u> is tied to gut health. Damage in the gastrointestinal tract can cause a number of health issues that can, in turn, affect other organs in your body. Hydrogen's ability to help counteract toxins in the gut and increase the secretions of healthy hormones directly affects the body's ability to fight off illness and infection.

Increases Energy Levels

 H_2 can give you energy in several ways because it can so quickly enter your cells and release its many benefits. Adenosine triphosphate, or ATP, is known as the energy currency of the cell. Once ATP is broken down to adenosine diphosphate (ADP), energy is released. This energy promotes all cellular activities.

Are There Side Effects to Drinking Hydrogen Water?

According to the U.S. Food and Drug Administration, hydrogen water is safe, even over long periods of time.

Studies have shown positive results after consuming water infused with hydrogen over a period of time, and according to the U.S. Food and Drug Administration, it is safe to ingest.

ECO WATERHOUSE TECHNOLOGIES TEL: 800 239-8420 ALKALINE AND IONIZED WATER PURIFICATION SYSTEM

Limited Warranty

1. Warranty Covers

Alkaline and Ionized Water Purification System is warranted to the original owner to be free of defects in material and workmanship from the date of manufacture for two years as follows:

- 1) The manufacture will replace the defective parts (excluding the replaceable filters) within two years at no charge.
- 2) The replaceable filters are warranted for defects in material and workmanship only. Service life of replaceable filter varies with local water and is thus not warranted.

2. Conditions of Warranty

- 1) System must be maintained and service with manufacturer approved replacement parts. The performance and function of the RO system is directly related to the quality of the water being treated and the particular application in which it is used. Therefore, the manufacturer liability is limited to the cost of repair or replacement of any defective part and does not include incidental or consequential damages of any kind. This warranty gives you special legal rights and you may also have other rights which vary from state to state.
- 2) Systems must be installed and operated in accordance with manufacturer recommended procedures and guidelines.

3. Alkaline and Ionized Systems Will Not Do

- 1) Warranty is void if product failure or damage result from freezing, neglect, misapplication, fouling with sediment or scale or failure to operate the system in accordance with the instructions contained in the owner's manual.
- 2) The following operating conditions must also be followed for this warranty to be valid.

Operating pressure: 50-90 psi (3.5-6.3 kg/cm²) Operating temperature: 40-100 ° F (4.4 -37.8 °C) Hardness: <120 ppm (7gpg) TDS: <1000 ppm pH Range: 3-11

Iron: <0.3 ppm

4. Limitations and exclusions

The manufacturer will not be responsible for any implied warranties including those of merchant ability and fitness for a particular purpose. The manufacturer will not be responsible for any incidental or consequential damages including travel expense, telephone charges, loss of revenue, loss of time, inconvenience, loss of use of the equipment and damage caused by the equipment and its failure to function properly. This warranty sets forth all of manufacturer's responsibilities regarding this equipment.

Drink Alkaline Ionized Water!

