

## VESTA ALKALINE WATER IONIZER OPERATION MANUAL



Manufactured by GL Group Co., Ltd.

**VESTA**  
GL-988



Warning: Incorrect installation and /or operation could void your valuable warranty.  
Please protect your investment! Read this manual carefully.



## Now that's POWER!

### Industry-first technology!

**AutoAdjust™** optimizer automatically adjusts the ionizing power giving the best performance and ionization for your particular water source.

**Smart Switch™** next generation SMPS power supply provides the most stable and efficient power platform.

**Patented Biostone Filter Technology** ensures you peace of mind, knowing your water is not only alkaline and ionized, but cleaned.

**AutoClean** fully automatic post use cleaning – unlike other ionizers, never wait for your alkaline water and protect your investment.



#### Key Features:

- 9 high-efficiency platinum titanium electrodes deliver more power per square inch than larger less sophisticated electrodes requiring large wattage. Think small. Think efficient.
- Advanced self-diagnostic MICOM circuitry system
- Widest range of 274 pH and ORP selections
- Energy-saving advanced water flow sensor
- Compact size – smaller than other 9 electrode ionizers
- Sleek mirror faced elegant design by Samsung
- Aesthetic touch screen sensors

**Follow these instructions carefully to enjoy the use of your ionizer.**

- Be sure that the unit is installed properly. Note that installation methods may vary slightly depending on type and configuration of sink plumbing and cabinetry.
- Check for leaks after installation of the unit.

## CONGRATULATIONS ON YOUR NEW PURCHASE!

You have just purchased the finest, most advanced water system in the world! Your new ionizer is designed to provide you with many years of the cleanest, healthiest and most "functional" water available. There are many specific uses and benefits of this amazing water, so read this manual carefully to learn how to get both optimum performance out of your ionizer and to protect your investment. Your new ionizer produces filtered alkaline, ionized water. Just exactly what is that? Your ionizer employs computer accurate and selectable magnetic energy to perform electrolysis through patented platinum bonded titanium electrodes inside a water cell. Inside this advanced cell, the magnetic energy separates the water into an alkaline (high pH) and acid (low pH) stream without using any chemicals. Ionizing the water in this way re-structures the molecules and reduces their cluster size, binds extra oxygen molecules, and concentrates ionized, absorbable and beneficial minerals like Calcium, Magnesium and Potassium.

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**⚠ WARNING**

: Please read these pages carefully. They contain very important information to protect you and the valuable warranty on your ionizer.

**Warning Legend**

The following symbols are used for different levels of warning.

**⚠ DANGER**

: Could cause personal injury or have an adverse effect on health.

**⚠ CAUTION**

: Could cause damage to ionizer and possibly void your warranty.

	General warning
	User warning
	Risk of electrical shock ; user should unplug unit to avoid electrical shock.

**⚠ DANGER**

If you have a chronic disease or serious health issue then please consult with a health care provider before using the ionizer.

If you have never consumed alkaline water – start off with the lowest alkaline setting (level 1) to begin with. Let your body adjust slowly and naturally for 4-7 days. After this initial adjustment period, you may gradually increase the alkalinity of the water.

⚠ Do not drink alkaline water if you have achlorhydria.

⚠ Consult a health care provider before using acidic water if you have:

- Sensitive skin
- Allergies

⚠ Only use potable drinking water in your ionizer.

⚠ If on hard water please ask about pre-treatment options

⚠ Well water and water from smaller systems should be tested for safety before using with an ionizer, and may require pre-filtering.

Customers in hard water areas may need additional treatment otherwise risk voiding their valuable warranty. If unsure about the quality of your water please contact a water specialist.

**Precautions : Do not use the following types of water.**

- Contaminated
- Salt water or Softened water
- Turbid water
- How water over 104 Fahrenheit / 40 Celsius

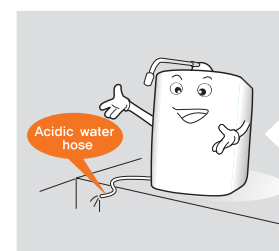
**⚠ If Acidic 3 level is used for 10+ minutes, the unit may power off as a protection against overheating. The unit will operate again after it cools down.**



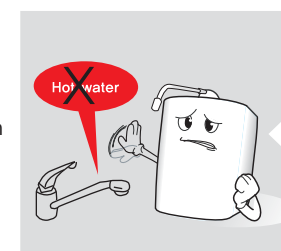
Do not use your ionizer at voltages other than specified (AC 110V FOR USA). Use a GFI outlet. Do not plug in your ionizer where it will exceed the rating of outlet or electric wiring. Failure to do so can result in fire, injury and/or damage to yourself, wiring or ionizer!



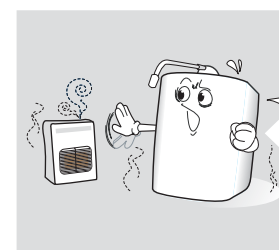
Protect your ionizer from freezing temperatures or from direct sunlight. When using the unit in a cold place, remove the filter after use to prevent the filter from freezing.



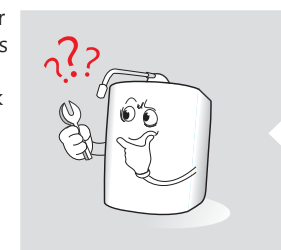
The acidic water hose should be installed so that the end is lower than the connection at the elbow on the ionizer. The water should flow freely down from the elbow.



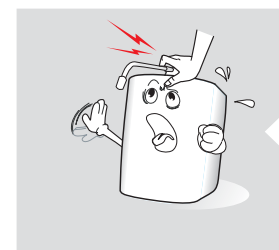
Be sure that the ionizer is connected to a COLD water source. Connecting it to a hot water source could damage the water cell or other parts of the ionizer.



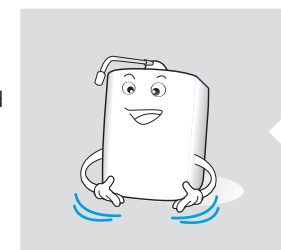
Keep the power cord and your ionizer away from hot surfaces or appliances - failure to do so may result in electric shock or fire!



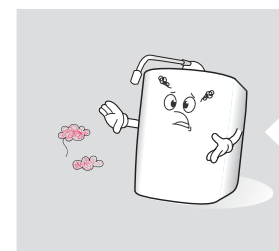
Do not try to fix the ionizer yourself. Call the dealer to have it fixed by a qualified technician.



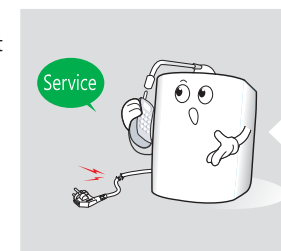
Don't move the unit by the front cover. The unit could be damaged or cause you bodily injury if the cover falls off and the main body falls.



Move the unit by putting both hands underneath it. This will prevent the unit from falling during movement.



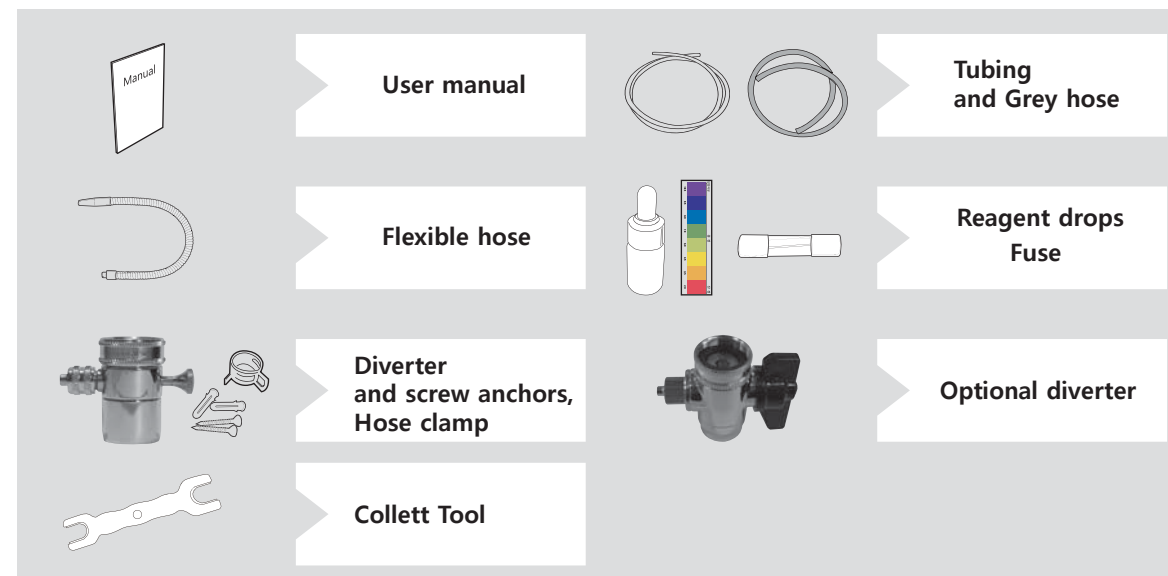
Don't use the unit in a dusty place. This may cause the unit to malfunction.



If the power cord develops a break or short, stop using the unit and call customer service to have it replaced.

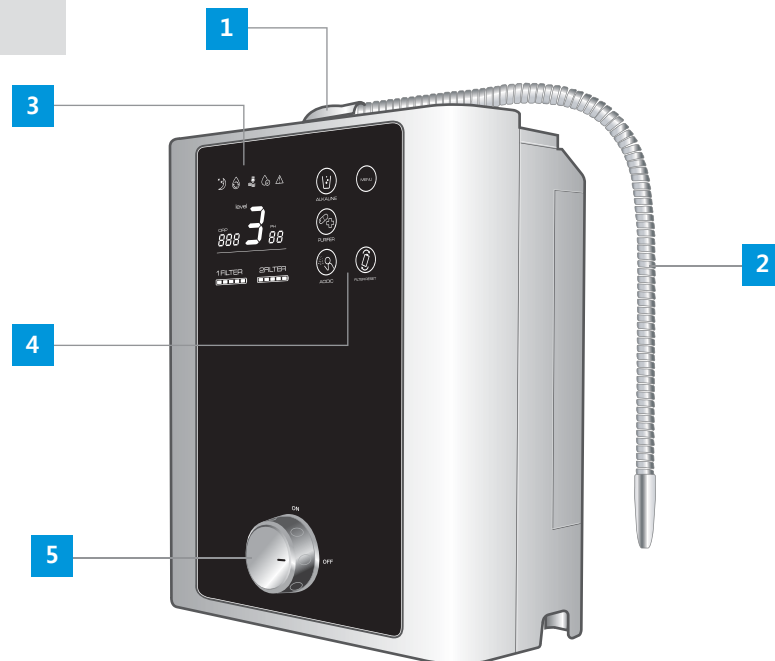
### ■ Installation accessories

Before installation, please check to ensure you have the following accessories.



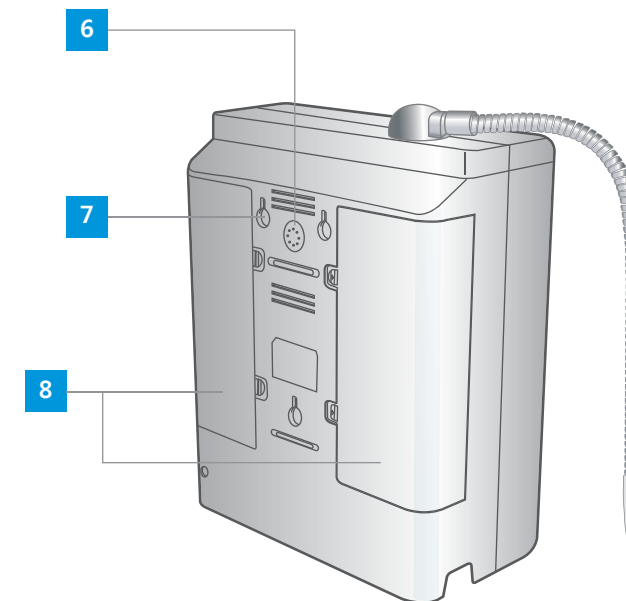
### ■ Name of parts (Front)

- 1) Water outlet cap
- 2) Flexible hose
- 3) Display indicators
- 4) Buttons
- 5) Water supply valve (Knob)



### ■ Name of parts (Back)

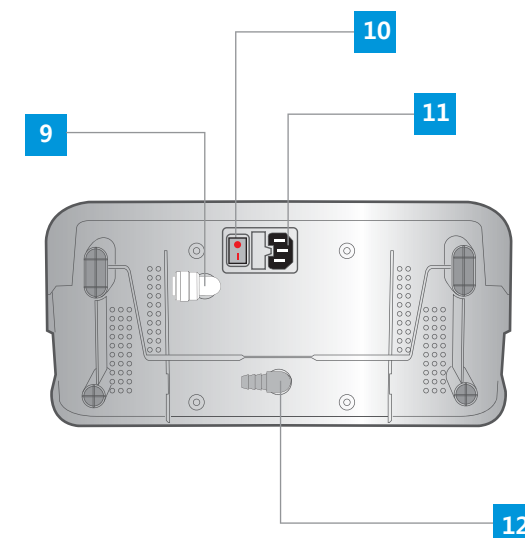
- 6) Speaker grill
- 7) Wall mount hole
- 8) Filter covers (L/R)



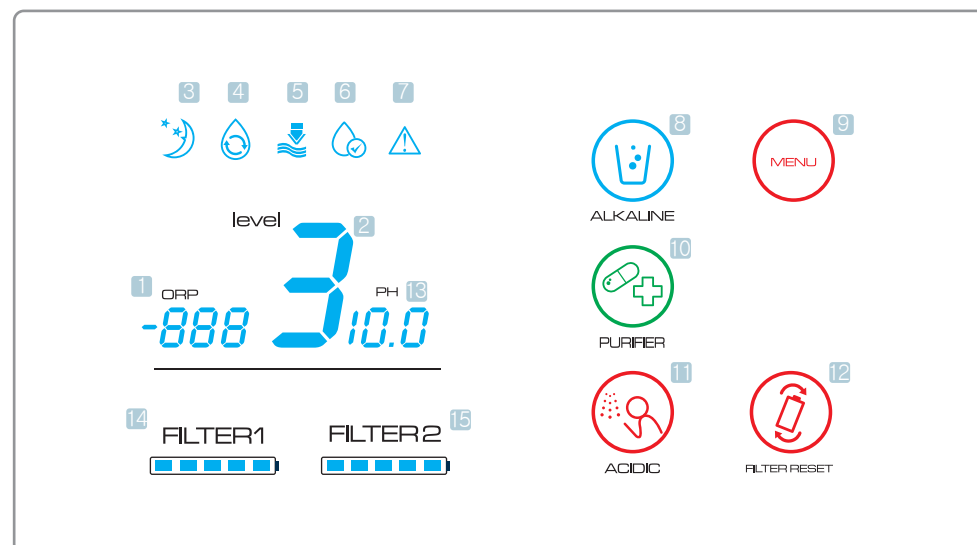
### ■ Name of parts (Base)

- 9) Water Inlet (1/4")
- 10) Power switch (On/Off)
- 11) Power socket
- 12) Water outlet (PVC)

**Note:** The Water inlet (1/4") comes with a removable plug that needs to be removed prior to cold water inlet tube installation. Please see page 09 Installation to faucet Step 6 for further instruction."



### Control Panel Display

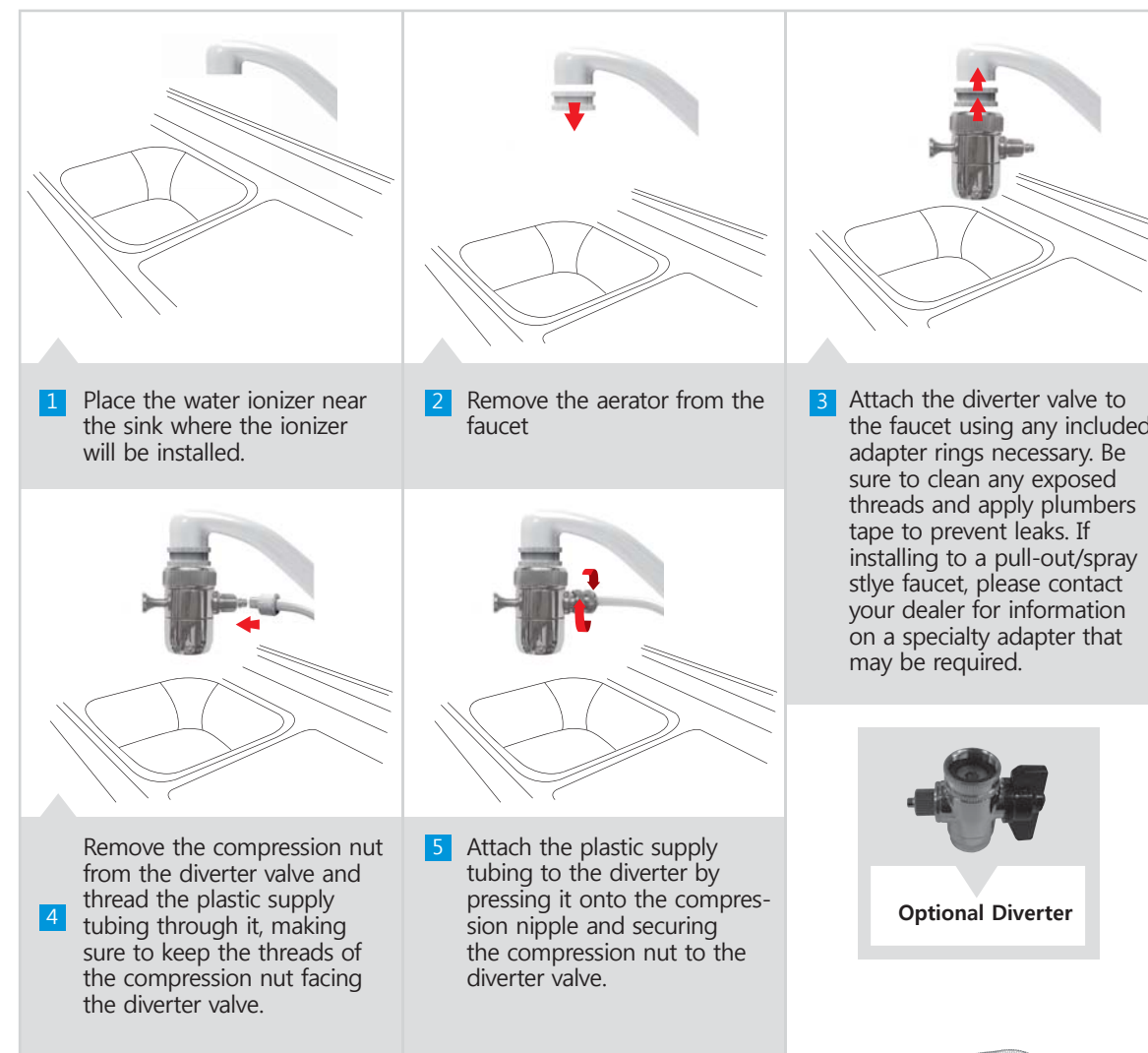


- |                            |                                    |
|----------------------------|------------------------------------|
| 1 ORP Meter Indicator      | 9 Menu Selector Button             |
| 2 Level Indicator          | 10 Purified Water Button           |
| 3 Sleep Indicator          | 11 Acidic Water Button             |
| 4 Cleaning Indicator       | 12 Filter Reset Button             |
| 5 Low Flow Indicator       | 13 pH Level Indicator              |
| 6 Menu Selection Indicator | 14 Primary Filter Life Indicator   |
| 7 Check Unit Indicator     | 15 Secondary Filter Life Indicator |
| 8 Alkaline Water Button    |                                    |

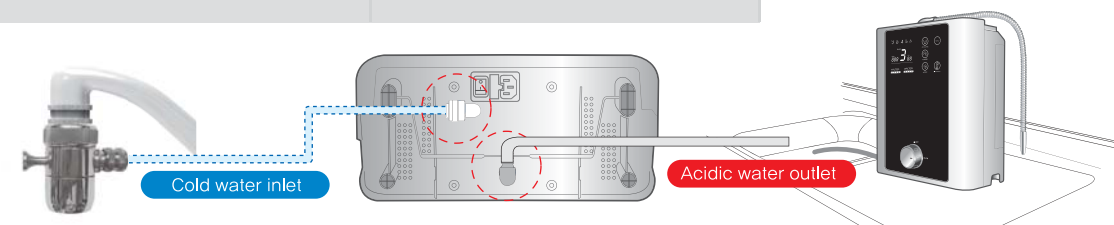
### Audio functions

When automatic cleaning is on	"It is being washed now."
When Alkaline water is selected	"First grade alkaline water is being extracted now." "Second grade alkaline water is being extracted now." "Third grade alkaline water is being extracted now." "Fourth grade alkaline water is being extracted now."
When Acidic water is selected	"First grade acidic water is being extracted now." "Second grade acidic water is being extracted now." "Third grade acidic water is being extracted now."
When Purified water is selected	"Clean water is being extracted now."

### Installation to faucet



Optional Diverter



### 6 Connect hoses to the water inlet and acidic water outlet.

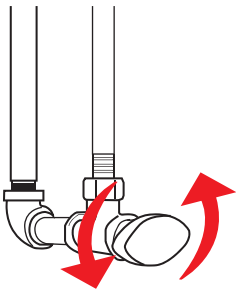
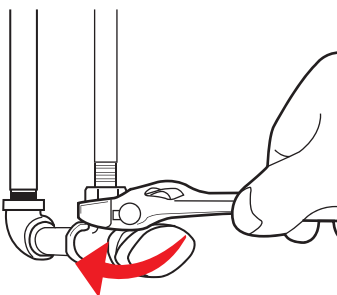
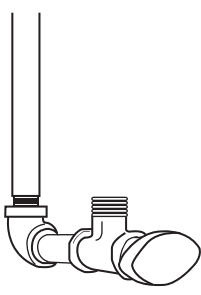
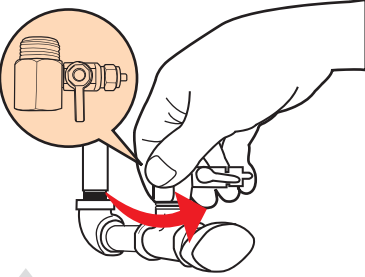
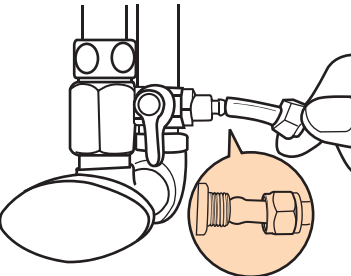
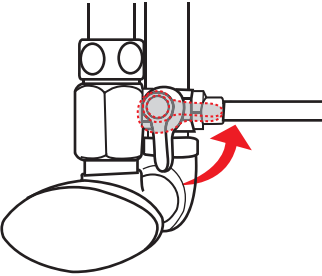
To connect water inlet hose, first remove the 1/4" Red plug from the cold water inlet fitting by sliding the collet tool between the Red plug and the white collet to release the Red plug. With the collet tool in this position, the Red plug can be pulled out of the cold water inlet fitting. With the Red plug removed, simply press the 1/4" white water inlet tube into the water inlet fitting making sure to press firmly to ensure a proper seal. To connect the Acidic water outlet, slide the hose clamp approximately 1" over one end of the Grey Acidic water outlet hose. Slide the end with the hose clamp over the barbed Acidic water outlet fitting. Using a pair of needle nose pliers, compress the two tabs of the hose clamp together, and slide the hose clamp over the section of hose that is surrounding the barbed fitting and release the tabs.



# Installation for connecting directly to cold water line (optional: cold water line adapter not included)

## ■ Installation for connecting directly to cold water line

■ Contact their dealer for information on how to obtain a suitable cold water line adapter.

		
<p><b>1</b> Find the cold water supply line and close the valve.</p>	<p><b>2</b> Disconnect the cold water hose from the line. Make sure it is the cold water hose and not hot because hot water will cause the unit to malfunction.</p>	<p><b>3</b> Separate the water line.</p>
		
<p><b>4</b> Connect the cold water line adapter to the cold water supply valve as shown. As fittings vary you will need to find the right size adaptors at your local plumbing store.</p>	<p><b>5</b> Connect the plastic tubing as shown.</p>	<p><b>6</b> Connect hoses to the water inlet and acidic water outlet then open the cold water supply valve. See step 6 on page 09 for instructions on how to connect these hoses.</p>

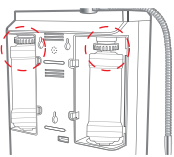
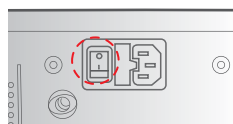
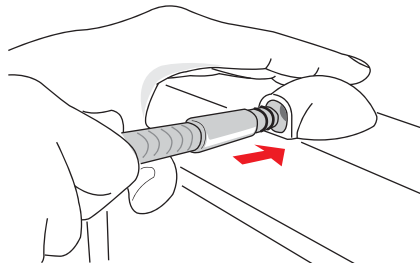
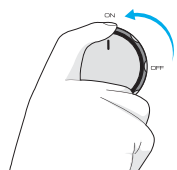




### ⚠ CAUTION

- Be sure the valves are all connected tightly to prevent leakage.
- Be sure of where you want to install the ionizer as a hole needs to be drilled through the sink top to thread the tube.
- Be sure you connect the unit to cold water as hot water can damage the unit.
- This is a good time to double check and make sure all your fittings are tight and the tubing is secure in the fittings.
- Check daily for any leaks during the first week after installation and check for leaks occasionally thereafter.

# Using your water ionizer

## ■ Using your water ionizer

### Display and operation

### Instructions

- 1 Ensure both filters are fully installed and seated properly prior to running any water through the ionizer. Filter installation instructions can be found on page 13 of this manual.
- 2 Plug the power cord into the Power Socket at the base of the ionizer and into a standard 110V grounded GFI outlet. Turn the power switch on at the bottom of the unit. Before operation, check to see if the sleep light is on. When the main flow control valve is turned on, the sleep light will turn off.
- 3 Install the Flexible Hose to the Water Outlet Cap by aligning the flat section of the Black end of the Flexible Hose with the flat section inside and bottom of the Water Outlet Cap. Press firmly until a "snap" is heard. Ensure a good fit by gently pulling out on the Flexible Hose. The Flexible Hose should not come out. If it does, continue pressing firmly until the "snap" is heard and the Hose does not come out with a gentle pull.
- 4 Set the water supply valve to the "ON" position. This is the knob on the front of machine and has an "ON" and "OFF" position. Important; This is one of the most critical features in controlling your ionizer's performance. This control WILL DIRECTLY impact the performance of your ionizer. A slow flow will yield higher pH; a fast flow will yield lower pH.
- 5 Once water flow has been established, select "Purified" water, and let the ionizer run for 3 minutes. This is important as it will flush out residual filter media dust created during the manufacturing process.
- 6 Once the filters have had sufficient time to flush, select alkaline water and choose the level of your choice. Press the button until the number goes up to your desired selection.
- 7 Select acidic water and choose the level of your choice. Press the button until the number goes up to your desired selection.  
**⚠ If Acidic 3 level is used for 10+ minutes, the unit may power off as a protection against overheating. The unit will operate again after it cools down.**
- 8 When finished using, turn the water supply knob valve to the off position. When the valve is turned off, the sleep light will turn on again.

**CAUTION**

- When switching from Acidic water to Alkaline water, let the water run for 5 seconds before drinking.
- Run acidic water through the unit for 10 to 15 seconds each day before drinking the water.
- Run acidic water through the unit for about 30 seconds if the unit has not been used for several days.

**CAUTION****Error indicators****Error 1**

When the water pressure drops too low, this symbol will appear before the unit switches off automatically. If this appears, increase water pressure either at the front valve or, if that does not work, at the water source valve.

**Error 2**

This symbol will appear if the unit has turned off due to low water pressure. Check the source water valve for obstructions.

**Drinking Alkaline Water****Drinking and using Alkaline Water**

The following kinds of water should not be consumed:

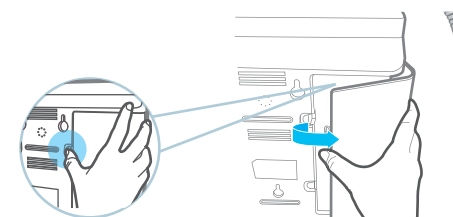
- Water with greater than 10 pH.
- Acidic water.
- Any water that comes from the acidic water hose.

Drinking purified water

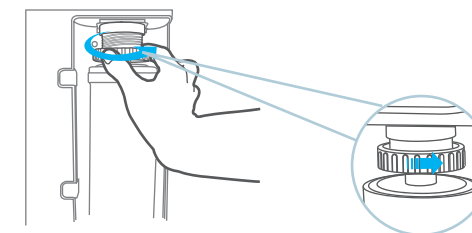
- 1) Created by using the "Purified" mode has been cleaned without altering the pH level.
- 2) Drink this water to take medication.
- 3) Store Alkaline or Purified water in a sealed bottle inside the refrigerator. Only store Alkaline water for a maximum of 3 days. For optimal effect, drink the water within one day.

**Alkaline Water usage guide**

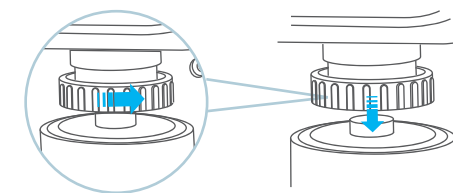
	When using during the first seven days			After getting used to the water		
	Child	Adult	Amount	Child	Adult	Amount
Alkaline Water	pH 7.5	pH 7.5-8.5	Open	pH 7.5-8.5	pH 8.5 +	Open

**Changing the filter**

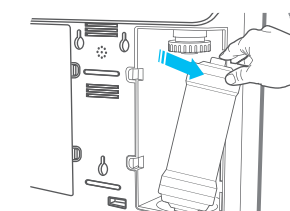
- 1 Push in on the snap tabs and slide the filter cover over as indicated to open.



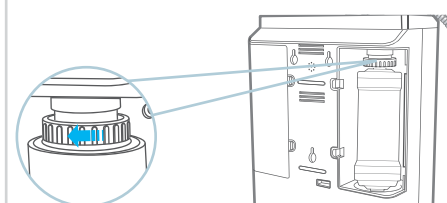
- 2 Rotate the bezel in the direction indicated by the arrow to open.



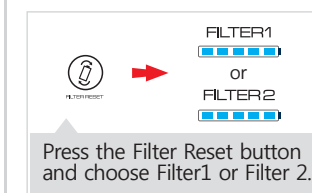
- 3 Pull the filter down as shown



- 4 Tilt the filter out and remove the old filter.



- 5 Insert the bottom of the filter to match the valve base. Tilt the new filter into the filter holder screw top and tighten. Check for leaks and tighten if there are any leaks. Do not overtighten as this could break the unit.

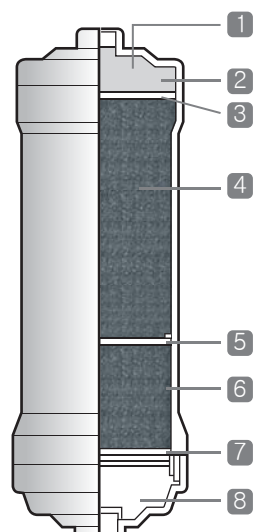


- 6 Press the Filter Reset button for more than 3 seconds to reset the primary filter, and press the Filter Reset button for more than 3 seconds to reset the secondary filter indicator

**CAUTION**

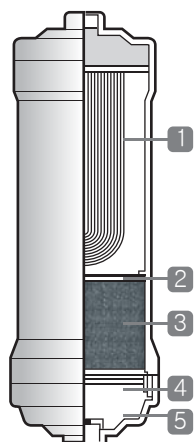
- The method for changing the primary and secondary filters is the same.
- The filter life indicator consists of 5 sections of light for each filter. If the indicator lights are all off, it is time to change the filter.
- Let the water run for 3 minutes after changing the filter to be sure that any loose particles in the filter are discharged.
- If the ionizer has not been used for an extended period of time, flush the ionizer by producing acidic water for about 5 to 10 minutes before switching to alkaline.

### 1st Filter(Carbon Filter) / 2nd Filter(Carbon Filter)



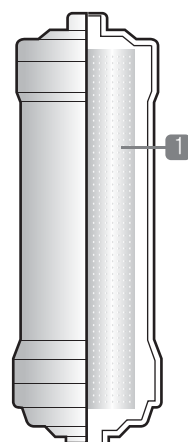
- 1. Felt**  
Filters large particulate matter out of the water.
- 2. Calcium**  
Slightly increases the alkaline mineral content in your water and improves the taste of water and removes odors. It also eliminates chlorine.
- 3. Felt**  
Filters out rust and other large particles.
- 4. Activated Carbon**  
Coconut tree based activated carbon used to make water taste better by eliminating organic compounds, bad smells and flavors as well as foreign substances at the 18-50 mesh size.
- 5. Felt**  
Filters out rust and other large particles
- 6. Activated Carbon**  
Coconut tree based activated carbon used to make water taste better by eliminating organic compounds, bad smells and flavors as well as foreign substances at the 18-50 mesh size.
- 7. Felt**  
Filters out rust and other large particles.
- 8. Tourmaline**  
Tourmaline emits Far Infra Red(FIR) energy naturally. FIR produces well documented health benefits and it also has an amazing effect on water. The Biostone contains the semi-precious gemstone tourmaline in ceramic form, so you get FIR on tap!

### UF Filter (Optional)



- 1. UF(Ultra Fine) Filter**  
Hollow heavy duty fiber with pores that will effectively filter down to 0.01M in size, removing bacteria and other micro-organisms.
- 2. Felt**  
Filters out rust and other large particulate matter from water.
- 3. Activated Carbon**  
Coconut tree based activated carbon used to make water taste better by eliminating organic compounds, bad smells and flavors as well as foreign substances at the 18-50 mesh size.
- 4. Calcium**  
Slightly increases the alkaline mineral content of your water and improves the taste of water. Helps also to eliminate chlorine.
- 5. Tourmaline**

### Sediment Filter (Optional)



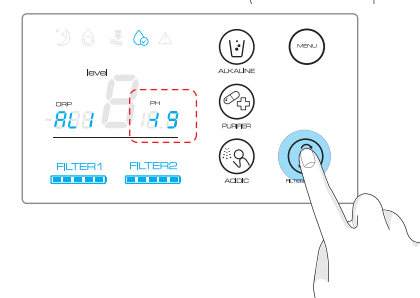
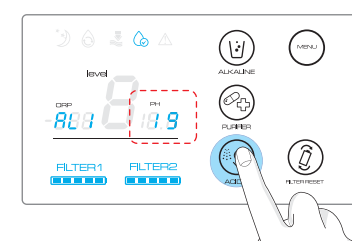
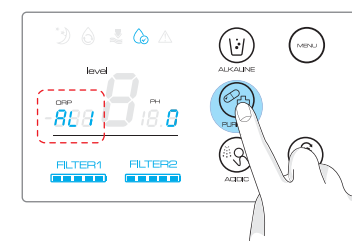
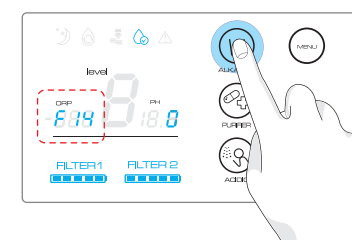
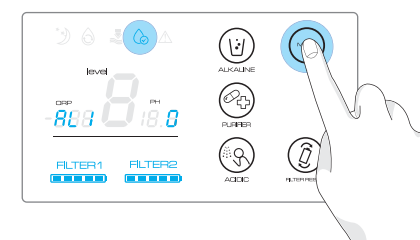
- 1. Sediment Filter**  
The Sediment Filter reduces infusible particles from feed water and protects the membrane and pre-carbon filters from being clogged with the largest particles extending the life of the rest of the filters.

### Filter Replacement Notification

- The filter life indicator consists of 5 sections of light for each filter. When the filter is ready to change, all the sections of light will go off. An audio message will give a warning 10 days in advance of filter replacement. When the filter indicator blinks, the filter must be replaced.
- There are instances in which sediment and carbon filters should be changed separately depending on the places of use or region.
- Filter life will change depending on the region's water quality. If water flavor worsens or if the flow rate slows down considerably, it is highly recommended to change the filter.

### Adjusting settings

#### Display and operation



#### Instructions

- 1** To access the setting adjustment mode on your ionizer, press and hold the Menu button for more than 3 seconds, "AL1" appears on the ORP display window and "0" appears on the pH display window.
- 2** Press the Alkaline button to cycle forward through the different functions and press the Purifier button to cycle backwards through the functions.
- 3** To adjust a specific function, cycle through the function list until the specific function number you wish to change appears in the ORP display window. To cycle forward through the function settings, press the acidic button. To cycle backwards through the function settings, press the Filter Reset button. The function setting values will appear in the pH display window.


- Once all settings are made, select the MENU button to save your settings. When changes are saved the ionizer will reset to Acidic Level 3 indicating the changes were saved to memory. Please be sure to reset to your preferred Alkaline Water Level for drinking.

**Note:** There is no need to change any settings if ionizer is working well.

Example of Language Function setting change (F09)

1. Press and hold the MENU button for more than 3 seconds.
2. "AL1" will appear on the display.
3. Press the "Alkaline" button to cycle forward until F09 appears in the ORP display window.
4. Press either the "Filter Reset" button to make the display number go down and or the "Acidic" button to make the number go up until you arrive at the language you want.
5. After the language is selected, press the "MENU" button to save the selection."



Setting Code (ORP)	Setting Description	Display Panel Shows
AL 1	Allows you to set voltage for Alkaline Water Level 1	 <p>Sets Voltage from lowest (-19) to highest (+19) for Alkaline Water Level 1</p>
AL 2	Allows you to set voltage for Alkaline Water Level 2	 <p>Sets Voltage from lowest (-19) to highest (+19) for Alkaline Water Level 2</p>
AL 3	Allows you to set voltage for Alkaline Water Level 3	 <p>Sets Voltage from lowest (-19) to highest (+19) for Alkaline Water Level 3</p>
AL 4	Allows you to set voltage for Alkaline Water Level 4	 <p>Sets Voltage from lowest (-19) to highest (+19) for Alkaline Water Level 4</p>

Setting Code (ORP)	Setting Description	Display Panel Shows
AC 1	Allows you to set voltage for Acidic Water Level 1	 <p>Sets Voltage from lowest (-19) to highest (+19) for Acidic Water Level 1</p>
AC 2	Allows you to set voltage for Acidic Water Level 2	 <p>Sets Voltage from lowest (-19) to highest (+19) for Acidic Water Level 2</p>
AC 3	Allows you to set voltage for Acidic Water Level 3	 <p>Sets Voltage from lowest (-19) to highest (+19) for Acidic Water Level 3</p>
F07	No Option Available (Set at Factory to 9 plates)	

Setting Code (ORP)	Setting Description	Display Panel Shows
F08	Volume	  <p>OFF-1-2-3-4-5-6-7-HIGH</p>
F09	Language Selection	  <p>1=Korean 2= French 3= English 4=Spanish</p>
F10	pH/ORP display mode selection	  <p>0= OFF - No pH or ORP Display 3= Dynamic – Computes on mineral content and flow 7= Static (default) - Fixed approximations of pH/ORP</p>

Setting Code (ORP)	Setting Description	Display Panel Shows
F11	No Option Available (Set at Factory)	
F12	No Option Available (Set at Factory)	
F13	No Option Available (Set at Factory)	
F14	No Option Available (Set at Factory)	

Please check out the following troubleshooting suggestions before calling for repair.

Symptom	Possible cause	Resolution
Display panel does not light up.	* Is the power cord plugged in correctly to an active outlet?	* Plug the power cord in properly.
Switch does not work.	* Is the power plug connected to the outlet properly? * Is the fuse on the back blown?	* Plug the power cord in properly. * Check the fuse and replace it if necessary.
Water does not flow out or the unit has stopped functioning.	* Is the source water valve line closed? * Is the source water line connected? * Is the hose bent? * Is the water pressure too low? * Is the main water supply turned on or is the line frozen? * Is the filter clogged? * Running the acidic water on Acidic Level 3 for 10+ mins.	* Turn the water supply valve on. * Be sure the water supply hose is connected properly. * Be sure the water line is not bent. * Replace the filter. * If the unit is leaking, turn off the water supply valve and contact customer service. * Turn off the ionizer at the power switch for 5-10 minutes to allow for a reset period then turn the ionizer back on.
Water is leaking from the hose at the attachment.	* Check to see if the hose is disconnected	* Connect the hose snugly to the attachment.
The water has a strange odor or tastes bad.	* Has the unit been unused for a long time?  * Has the drain water hose been immersed in water?	* Let acidic water flow through the unit for 3 minutes or more. If the water does not improve, replace the filter.  * Remove the drain hose from water.
Even though the filter has been replaced, the filter life indicator still shows no-life.	* Did you reset the filter counter?	* Reset the filter by pressing the filter replacement button.
There is a strange noise coming from the unit.	* Unknown.	* Switch off and stop using the ionizer and contact customer service.

Calcium in water	Explanation
When filling your cup with alkaline water, white flakes are seen floating in the cup.	* When ionized water is generated, the water molecules are reduced in size. This results in a higher concentration of dissolved hydrogen in the water.  * This large quantity of mineral flakes in the water may occur right after a filter change or first use of the ionizer. There is no problem with drinking this water as it is mostly calcium which is not harmful to consume.
When high alkaline water is left in a container, the water will form a white film around the edges or on the bottom. The substance is $\text{CaCO}_2$ which has bonded with calcium and falls to the bottom of the container. If you prefer to not have this white substance in your water, adjust the pH to a lower level which will reduce the possibility of calcium bonding.	Calcium flakes form by bonding with hydrogen which is abundant in alkaline water. The presence of calcium is a sign that the water ionizer is functioning properly. If you would like to clean calcium out of any container, put a spoonful of vinegar in the container and fill it with water. Vinegar will dissolve the calcium. Leave the water in the container for 1 hour and shake the water out.

Product specifications		
Product Manufacture Permission Number		KFDA Permit No. 3277 / GMP No. 06-991
Product		Ion water generator
Model		GL-988
Input Voltage		100~250Vac, 50/60Hz
Input Electricity(Power Consumption)		230W
Weight		Approx 15.9 lbs
Overall Dimensions		13" X 10.5" X5.75"
Applicable Water inflow Pressure		1.5 lbs~ 11 lbs/ 0.7~5kgf/cm³
Applicable Water Temperature		41~86F /5~30°C
Unit Operation Type		One Touch Automatic ionization Start
Unit Operation Means		Tap water open and close.
Electrolytic Device	Electrolysis Method	Continuous Electrolysis
	Alkaline Settings	1-2-3-4 level
	Ionized Water Output Rate	Max 3 Liters/minute (alkaline + acidic water)
	Cleaning Device	Automatic self-cleaning mechanism
	Electrode Materials	Platinum and Titanium
Water Purifying Device	Filter Replacement	Easy to replace cartridge
	Filter Life	Activated Carbon Filter: Approx 9 months basic 20 Liter/day
	Filter Life indicator	FND indication
	Filter Composition	Activated carbon, Calcium, Tourmaline, Felt (Hollow ultra fiber, Sediment Filter optional)
Temperature shut down		Auto Shut off
Water Supply		Direct connection to a tap

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