Vesta is a trademark of GL Group Co., Ltd.

# VESTA ALKALINE WATER IONIZER OPERATION MANUAL





Warning: Incorrect installation and /or operation could void your valuable warranty.

Please protect your investment! Read this manual carefully.



7TITANIUM

WHITE

Manufactured by GL Group Co., Ltd.

9TITANIUM

BLACK

5TITANIUM





02



# 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 dual Biostone filtration

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:**

- 7 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 7 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.

# **Contents**

Contents ····	03
Safety Warnings and Precautions	04/05
Parts and Features ·····	06/07
Control Panel Features ·····	08
Installation to Tap ·····	09
Installation Direct to Cold Water Line	10
Using Your Water Ionizer ·····	11
Drinking Alkaline Water	12
Changing the Filter	13
Filter Configuration ·····	14
Adjusting Settings	15
Product Function and Settings ·····	16/17/18/19
Troubleshooting ·····	20
Calcium in Water ·····	21
Specifications ·····	22
Memo ····	23







# **Installation warnings**

# **⚠** 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.

# **A** DANGER

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

# **A** CAUTION

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

$\bigcirc$	General warning
()	User warning
<b>®</b>	Risk of electrical shock ; user should unplug unit to avoid electrical shock.

# A DANGER

If you have a chronic disease or serious health issue then please consult with a healthcare 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.

**A** Do not drink alkaline water if you have achlorhydria.

• Consult a healthcare provider before using acidic water if you have:

- Sensitive skin
- Allergies

• Only use potable drinking water in your ionizer.

**1** 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.

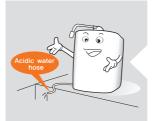
- Contaminated
- Salt water or Softened water
- Turbid water
- Hot water over 104 Fahrenheit / 40 Celsius



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.



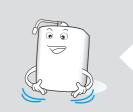
Keep the power cord and your ionizer away from hot surfaces or appliances - failure to do so may result in electric shock or fire!



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.



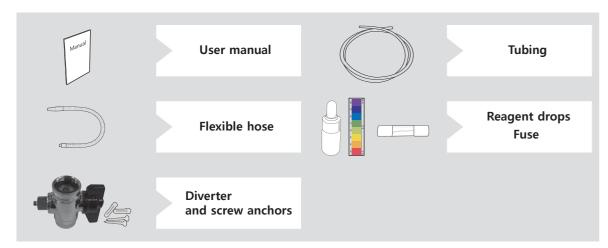
Don't use the unit in a dusty place. This may cause the unit to malfunction.



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.



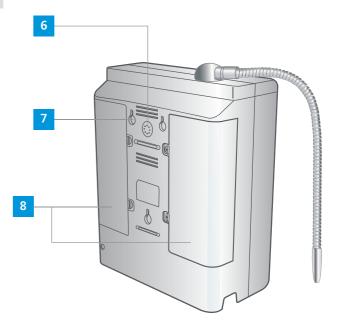
# ■ Name of parts (Front)

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



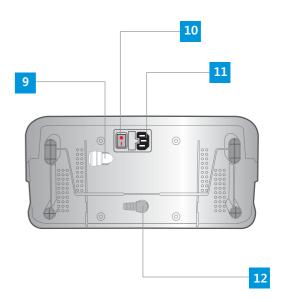
# ■ Name of parts (Back)

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

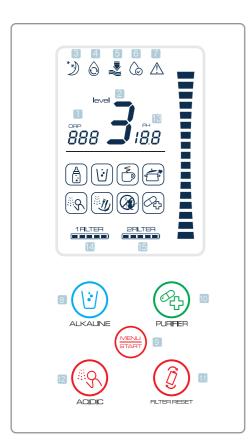


# ■ Name of parts (Base)

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



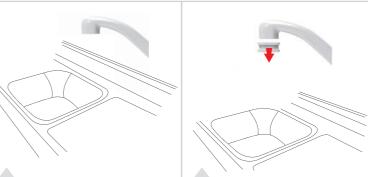
# **Control Panel Display**

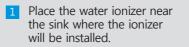


- ORP Meter Indicator
- Level Indicator
- Sleep Indicator
- Cleaning Indicator
- Low Flow Indicator
- Menu Selection Indicator
- Check Unit Indicator
- Alkaline Water Button
- Menu Selector Button
- Purified Water Button
- Filter Reset Button
- Acidic Water Button
- m pH Level Indicator
- Primary filter life indicator
- Secondary filter life indicator

# **Audio functions** "It is being washed now." When automatic cleaning is on "First grade alkaline water is being extracted now." "Second grade alkaline water is being extracted now." When Alkaline water is selected "Third grade alkaline water is being extracted now." "Fourth grade alkaline water is being extracted now." "First grade acidic water is being extracted now." When Acidic water is selected "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







2 Remove the aerator from the faucet



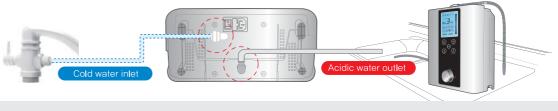
3 Attach the diverter valve to the faucet using any included adapter rings necessary. Be sure to clean any exposed threads and apply plumbers tape to prevent leaks. If installing to a faucet, please contact your dealer for information on a specialty adapter that may be required.



Remove the compression nut from the diverter valve and thread the plastic supply tubing through it, making sure to keep the threads of the compression nut facing the diverter valve.

5 Attach the plastic supply tubing to the diverter by pressing it onto the compression nipple and securing the compression nut to the

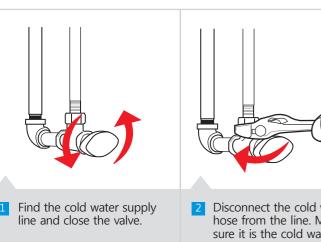
diverter valve.

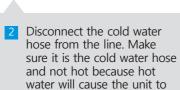


6 Connect hoses to the water inlet and acidic water outlet.

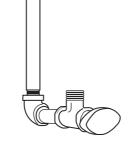
Do not use your ionizer at voltages other than specified (AC 110V FOR USA). Use a GFI outlet. Do not plug in your ionizer where it will exceed the rating of outlet or electric wiring. Failure to do so can result in fire, injury and/or damage to ionizer!

# Installation for connecting directly to cold water line



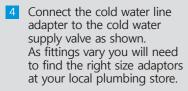


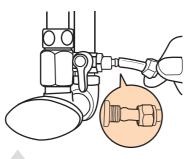
malfunction.



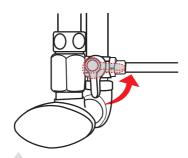
3 Separate the water line.







5 Connect the plastic tubing as shown.



Connect hoses to the water inlet and acidic water outlet then open the cold water supply valve.

# **A** 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

# **Display and operation**



- 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 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 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 contro WILL DIRECTLY impact the performance of your ionizer. A slow flow will yield higher pH; a fast flow will yield lower pH.
- 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.
- 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.
- Select acidic water and choose the level of your choice. Press the button until the number goes up to your desired selection.
- 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.

# **A** 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.

# **Drinking Alkaline Water**

# **A** CAUTION

# **Error indications**



# 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

# 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.

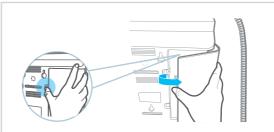
Drinking purified water

- 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.

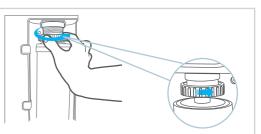
# Alkaline Water usage guide

	When using during the first seven days			After getti	ng used to th	ne 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

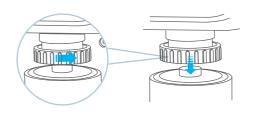
# Changing the filter



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



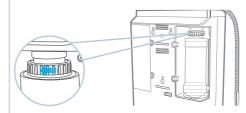
2 Rotate the bezel in the direction indicated by the arrow to open.



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.



and choose Filter1 or Filter 2.

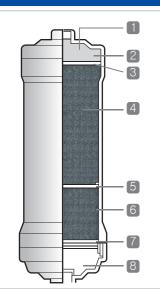


6 Press the Filter Reset button for more than 3 seconds to reset the primary filter, and press the Filter Reset button for more than 3 seconds to reset the secondary filter indicator

# **A** 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.

# **Carbon Filter (Optional)**



Filters large particulate matter out of the water.

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.

Filters out rust and other large particles

#### 6. Activated Carbon

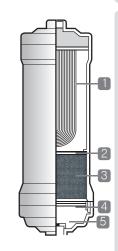
Coconut tree based activated carbon used to make water taste better by eliminating organic compounds, bad smells and flavors as well as foreign substances at the 18-50 mesh size.

#### 7. Felt

Filters out rust and other large particles.

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



1. UF(Ultra Fine) Filter Hollow heavy duty fiber with pores that will effectively filter down to 0.01M in size, removing bacteria and

2. Felt
Filters out rust and other large particulate matter from water

### 3. Activated Carbon

other micro-organisms.

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.

Slightly increases the alkaline mineral content of your water and improves the taste of water. Helps also to eliminate chlorine

### Tourmaline

# Sediment Filter



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

### 2. 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!

# **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



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-888 🗐 18.8



# 1 To access the setting adjustment mode on your ionizer, press and hold the Menu button for more

2 Press the Alkaline button to cycle forward through the different functions F00 - F14. Press the Acidic button to cycle backwards through the functions F14 - F00.

than 3 seconds, "F00" appears on the ORP display

window and "0" appears on the pH display window.

Instructions













- To adjust a specific function, cycle through the function list F00 F14 until the specific function number you wish to change appears in the ORP display window. To cycle forward through the function settings, press the Purifier 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.

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

Example of language function setting change Function - 10 : Language selection F09(Setting code)

- 1. Press and hold the MENU button for more than 3 seconds.
- 2. "F00" 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 "Purifier" 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.

Function setting code	Setting code (ORP)	Setting description	Setting description(pH)			
Function-01	F00	Set the current value to alkaline water level 1	Setting grade: -19~0~19 (Voltage from -19 to 19 for Alkaline Water)			
Function-02	F01	Set the current value to alkaline water level 2	E83 33 B83 88 BB3 B8 BB3 B8			
Function-03	F02	Set the current value to alkaline water level 3	ESE ISS  ESE			
Function-04	F03	Set the current value to alkaline water level 4	######################################			

Function setting code	Setting code (ORP)	Setting description	Setting description(pH)			
Function-05	F04	Set the current value to acidic water level 1	Setting grade: -19~0~19 (Voltage from -19 to 19 for Acidic Water)			
Function-06	F05	Set the current value to acidic water level 2	Setting grade: -19~0~19 (Voltage from -19 to 19 for Acidic Water)			
Function-07	F06	Set the current value to acidic water level 3	Setting grade: -19~0~19 (Voltage from -19 to 19 for Acidic Water)			
Function-08	F07	Set the number of electrolytic cells	5:5 plates => 7:7 plates			

Function setting code	Setting code (ORP)	Setting description	Setting description(pH)					
Function-09	F08	Volume		-1-2-3-4	168 56 30			
Function-10	F09	Language Selection	1.Korea	#888	)	<i>EE</i>	6 2 6 A 98 3 188 10 3 6 10 5 10 5	I. Spanish
Function-11	F10	pH/ORP display mode selection	MODE 0 1 2 3		) ião 3 a	<u>8</u> 8	Station ORP X  X	onary PH X X
				sible / X	Invisible			

Function setting code	Setting code (ORP)	Setting description	Setting description(pH)			
Function-12	F11	Cleaning method selection	There are 4 cleaning modes available:  1. This is the mode that allows pre and post cleaning with the "Now cleaning" announcement.  2. Pre-cleaning with the "Now cleaning" announcement and Post cleaning no announcement is made.  3. Post-cleaning only - with the "Now cleaning" announcement.  4. Post cleaning - no announcement is made.			
Function-13	F12	Set Filter 1's Capacity	25 ⇒ 30 ⇒ 35 ⇒ 40 ⇒ 45 ⇒ 50 ⇒ 55 ⇒ 60 2500ℓ 3000 ℓ 3500 ℓ 4000 ℓ 4500 ℓ 5500 ℓ 6000 ℓ			
Function-14	F13	Set Filter 2's Capacity	25 ⇒ 30 ⇒ 35 ⇒ 40 ⇒ 45 ⇒ 50 ⇒ 55 ⇒ 60 2500ℓ 3000ℓ 3500ℓ 4000ℓ 4500ℓ 5500ℓ 6000ℓ			
Function-15	F14	Set up water flow	3⇒4⇒5⇒6⇒7⇒8⇒9⇒10⇒11⇒12⇒13 300cc⇒400cc⇒500⇒600cc ~ 1100cc⇒ 1200cc⇒1300cc			

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 neces-
	"Is the luse on the back blown:	sary.
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?	* Turn the water supply valve on.  * Be sure the water supply hose is connected properly.  * Be sure the water line is not bent.
	* Is the main water supply turned on or is the line frozen?	<ul> <li>* Replace the filter.</li> <li>* If the unit is leaking, turn off the water supply valve and contact customer service.</li> </ul>
	* Is the filter clogged?  * Running the acidic water on Acidic Level 3 for 10+ mins.	<ul> <li>* Replace the filter.</li> <li>* Turn off the ionizer at the power switch for 5-10 minutes to allow for a reset period then turn the ionizer back on.</li> </ul>
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?	* Let acidic water flow through the unit for 3minutes or more. If the water does not improve, replace the filter.
	* Has the drain water hose been immersed in water?	* 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.	<ul> <li>* When ionized water is generated, the water molecules are reduced in size. This results in a higher concentration of dissolved hydrogen in the water.</li> <li>* 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.</li> </ul>
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 CaCO2 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 Manufacto	ure Permission Number	KFDA Permit No. 3277 / GMP No. 06-991		
Product		Ion water generator		
Model		GL-788		
Input Voltage		100~250Vac, 50/60Hz		
Input Electricity(Po	ower Consumption)	230W		
Weight		Approx 15.9 lbs		
Overall Dimension	s	15.5" X 12" x 6.75"		
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.		
	Electrolysis Method	Continuous Electrolysis		
	Alkaline Settings	1-2-3-4 level		
Electrolytic Device	Ionized Water Output Rate	Max 3 Liters/minute (alkaline + acidic water)		
	Cleaning Device	Patented self-cleaning mechanism		
	Electrode Materials	Platinum and Titanium		
	Filter Replacement	Easy to replace cartridge		
Water Purifying	Filter Life	Activated Carbon Filter: Approx 9 months basic 20 Liter/day		
Device	Filter Life indicator	LCD indication		
	Filter Composition	Activated carbon, Calcium, Tourmaline, Felt (Hollow ultra fiber, Sediment Filter optional)		
Temperature shut of	down	Auto Shut off		
Water Supply		Direct connection to a tap		

	Memo
١	