

KYK Co.,Ltd. promises to treat every customer fairly and respectfully with their health and happiness our number one priority.

The head office address / Manufacturing Company ; KYK Co.,Ltd. www.kyk.com #407 Sun-il technopia, 555 Dunchon road, Joongwon-Gu, Sungnam City, Kyunggi-Do, KOREA zipcode 13215 TEL: 82-31-777-3939 FAX: 82-31-777-3456

Date : 2016.10.04



# **USER MANUAL**

RE3·RP3



## Thank you for Being our Customer!

Dear Customer,

We sincerely appreciate your purchase of KYK alkaline water Ionizer medical substance producer and we hope your health and happiness.

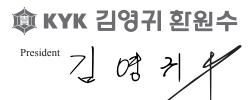
Before operating the product, you must read the user manual carefully.

You can know not only how to use but also the strong points of the product with a manual, use the strong points well to select custom water for various purposes and use it effectively, and, moreover, optimize the performance and life of the product.

All employees of our company promise to think in customer's shoes at all times and be dedicated to the benefits, health, and happiness of the customer.

Thank you.

Sincerely



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Note: The design and specifications of this product may be improved at any time.

#### **Special Features**

- 1 Shimmering aluminum front panel with color display
- Patented platinum titanium electrodes for improved electrolysis
- 3 Newly-developed ceramic valve (model: RP3)
  - A. make RP3 to work without a booster pump under low water flow
  - B. regulate water flow without water pressure regulator under high water flow
  - C. increased reliability
- SMPS with high performance and efficiency to avoid overheat
- 6 Ability to check filters authenticity and capacity (days/liters)
- 6 Ability to adjust for the pH of source water
- Voice notifications and ON/OFF
- (3) Maximized convenience and safety by automatic after-cleaning and draining from the electrolysis cell and filters
- Precise calibration in 200 different levels of electric current to get exact pH level of water
- Various water for different purposes:
  - A. Drinking for children and adults (Alkali 1,2)
  - B. Making tea, cooking, washing fruit and vegetables (Alkali 3,4)
  - C. Washing hands and face (Acid)
  - D. Taking medicine (Purified)





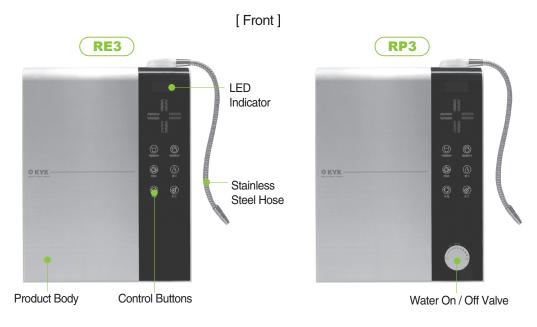






#### **Parts and Features**

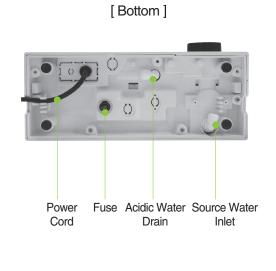
#### Front

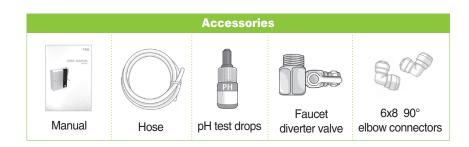


Speaker

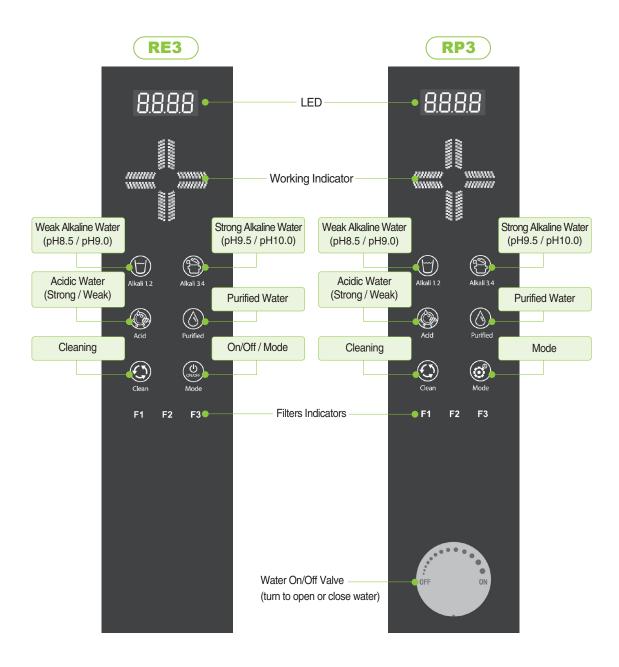
Filter Cover

[Back]





#### **Control Panel**





#### Clean:

Tap to start on-demand cleaning cycle.

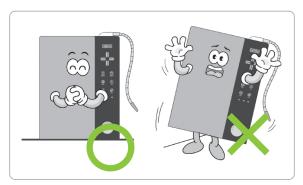
Automatic cleaning runs after every 30 liters to protect the electrolysis plates.

#### 정석왕박

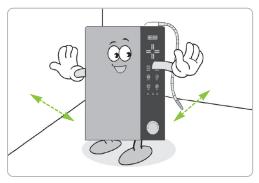
#### **Caution before Installation of the Product**

## $\triangle$

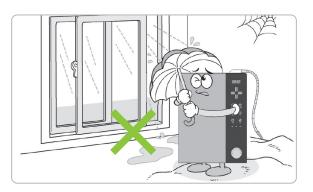
Please observe the following before installation.



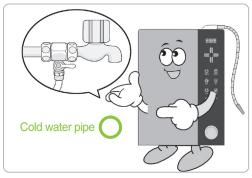
Install on the stable and flat surface.



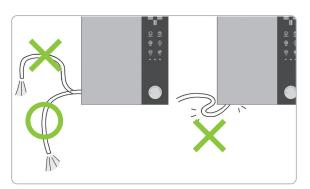
Place ionizer at least 10 cm away from the walls.



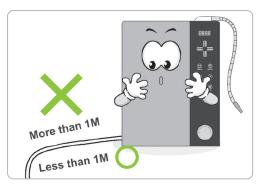
Keep away from moisture, water and direct sunlight.



Connect it to COLD water pipe only. Hot water may damage the lonizer.



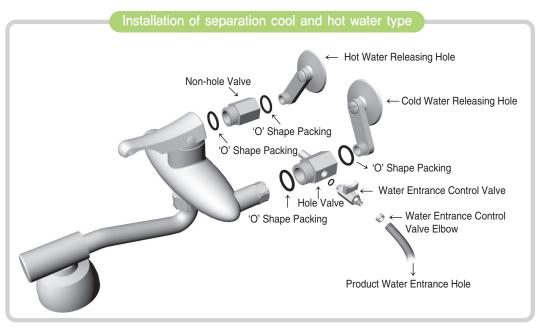
Place drain hose below the Ionizer. Do not bend or press the hose.



Keep the drain hose length under 1 m.

#### Installation Instructions

#### Installation





#### Caution



- All hookup part of pipe arrangement has to be covered by teflon tape for avoiding the leakage and you
  control the bounding number of tape for keeping the level of a horizontality and a perpendicularity.
- When you decompose and reassemble the product, if you give the over force, it will be possible to leak after
  assembling the product because of a pipe arrangement distortion of raw water, a break out of rubber packing
  and a breakage.
- 1 After locking all raw water of installation area or \_\_\_\_\_ type switch valve fixed on the wall for cold and hot water connected with a water service pipe behind a tap as shown in the figure by using a \_\_\_\_\_ type screwdriver, check to cut off water completely by opening a tap.
- Separate from the pipe for cold and hot water connected with a tap. (See the top figure) \*\* Warning-When you decompose the product, if a rubber packing attached on the nipple for preventing the leakage is worn out, you will change that. unless it will cause a leakage of product.
- 3 You wrap a teflon tape for preventing the leakage several times on nipples without a hole and with a hole and link them.



- \*But standard of a nipple with a hole differs according to the area and a manufacturer and if the size is not correct, you will order it separately.- We accept a request in the A/S center.)
- \*\* Warning-You wrap the tape for preventing the leakage 4~5 times not to harm on the connection between nipple and piping and after complete connection, you have to adjust the direction of a valve not to make a problem on the connection with the product.
- 4 You link the switch valve with the nipple with a hole connected in 3) as shown in the figure.
- Warning-You wrap the tape for preventing the leakage proper times not to harm on the connection between nipple and piping and after complete connection, you have to adjust the direction of a valve not to make a problem on the connection with the product.
  (As shown in the figure, after stopping down the nipple, the switch valve will be horizontal so you control the amount of leakage tape as the same amount.)
- (5) Insert the hose stop down nut at the hose and push the hose in the switch valve at the end. After that connect the hose stop down nut with switch valve and stop down with proper strength.
  - Warning-If you stop down the nut too strong, the water will be possible to leak because the hose in the hose stop down nut can be torn. Or if you stop down the nut too loose, the water will leak because the hose is missed from the switch valve.
    - So you connect the hose safely by giving the proper strength carefully.
- 6 How to connect with the product after connecting the hose with a tap pipe



After selecting the proper place for the product, cut the length of hose with some extra to the product. As shown in the figure, remove a rubber plug in the raw water inlet and put the hose in the raw water inlet. At this time, you put the hose at the end not to miss from the product.

## How to instal-Separation cool and hot water type

🎊 If you mix up the raw water inlet with the acidic water outlet, alkali water will not be produced and be the cause of a failure. So you must not install reversely between the raw water inlet and the acidic water outlet, If the failure happens because of a reverse installation, the man who installs the product will have to be charged with the failure.

- Cut the acidic water draining hose about 50cm~70cm and connect with the acidic water outlet (after removing the rubber stopper) as the same connecting way at the raw water inlet in 11 page.
  - You have to cut the acidic water draining hose within 1m because if the length is over 1 m, we will be possible to smell in the water.
  - The acidic water draining hose is placed lower than the body not to affect the quality of water.
- 3 Connect and assemble the alkali water delivery pipe (flexible hose) by turning to clockwise direction with the alkali water outlet placed on the upper side of the body. (When the leakage is happened, reassemble the product after wrapping up the tape properly.)
- (9) Before operating the product, check the leakage by opening the switch valve and there is no problem then operate the system.

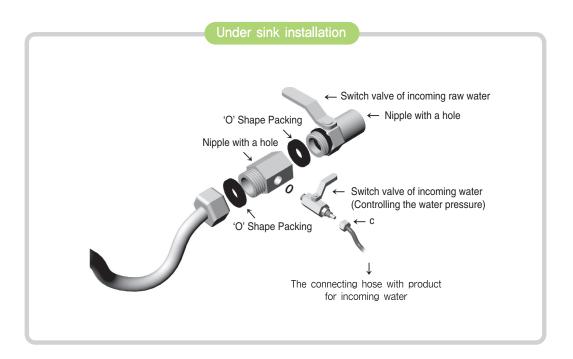
#### How to check the water pressure and set up

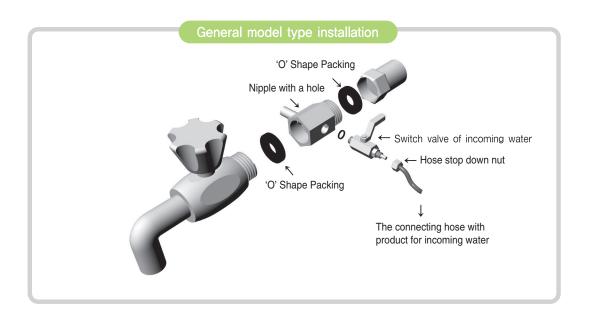
- 1) When you use a measuring instrument: Measure the pressure of raw water with a measuring instrument and if the water pressure is low then you will increase the pressure of raw water and if the incoming water pressure to the product is low then, you will increase the pressure by using the water pressure controlling valve (see the installation figure). (Standard -Adjust over 2.0 ℓ /min.)
- 2) When you do not have a measuring instrument (A simple measuring way) : If water can be filled in the vending machine cup during 6~7 seconds, the water pressure is about 1.80 /min and it is the proper water pressure for operating the product



## How to install - Under sink water supply system/General model type

#### Installation





#### RE3,RP3영문설명서201609 2016.9.21 11:11 AM 페이지12 김 PDF\_HIGH 2400PH 150LPI

#### How to install - Under sink water supply system/General model type





- All hookup part of pipe arrangement has to be covered by teflon tape for avoiding the leakage and you control the bounding number of tape for keeping the level of a horizontality and a perpendicularity.
- · When you decompose and reassemble the product, if you give the over force, it will be possible to leak after assembling the product because of a pipe arrangement distortion of raw water, a break out of rubber packing and a breakage.
- 1 After locking all raw water of installation area. (Ii is mainly placed at a tap water meter)
- 2 Separate from the pipe for cold and hot water connected with a tap. (See the figure in 13 page)
  - \*Warning-When you decompose the product, if a rubber packing attached on the nipple for preventing the leakage is worn out, you will change that. Unless it will be cause a leakage of product.
- 3 You link the switch valve with the nipple with a hole connected in 2 as shown in the figure.
  - \*You wrap the tape for preventing the leakage proper times not to harm on the connection between nipple and piping and after complete connection, you have to adjust the direction of a valve not to make a problem on the connection with the product.
  - (As shown in the figure, after stopping down the nipple, the switch valve will be horizontal so you control the amount of leakage tape as the same amount.)
  - \* How to link the hose with the product after connecting a tap water pipe
    - Do as the same way described in 9 and 10 page.
- 4 The check items for controlling the water pressure The proper water pressure for the normal operation is 1.5~3.0kgf/cm2. Keep the product out of the direct rays of the sun and do not change the original setting values intentionally.

# ••••• How to install and the check list

# Information–Connecting with a tap type Fixing with a screw type- Insert at the end of a tap by adjusting a balance and stop out a screw. Formal ring-Remove the ring from the end of a tap and turn and insert a formal ring. After linking the ON/OFF valve with a tap and connect with the inlet of the product.

#### **\*** Reference

- ▶ The case that ground water or solid quality of water is used.
  - -If the quality of groundwater is bad, you must mount a preprocessing filter.
  - -For the life and performance of the product, push the acidic water button  $1\sim2$  times in one week and drain acidic water during  $1\sim2$  minutes.
  - -In the area which has high solidity and calcareous, there is soiled as white by the calcium, so in the middle of water flow, you push the acidic water button  $2\sim3$  times in the week and drain water during  $30\sim60$  seconds.



#### **Check list**

#### **Installation Troubleshooting**

- 1 If there is no water flow:
- Check to make sure you removed the rubber stoppers on the inlet and outlet valves.
- Check the faucet or under sink adapter to make sure that the valve is open and water can get through.
- 2 If there is an improper ratio of alkaline water and acidic water:
- Increase the water pressure to at least 1.5 liters a minute.

  If the water pressure is too low, then there will be too much acidic water and not enough alkaline.
- Check to make sure the draining hose isn't bent or kinked.

  If it is, there won't be enough acid water and the alkaline water will be weak.
- After finishing installation and troubleshooting, connect the KYK Product to an AC 110V or 220V outlet.

#### **How to Use**

Plug in the ionizer after the installation. You will hear sound greeting and LED indicators will turn on and off for 3 sec. After that Alkaline Water Level 2 button will light up.

#### RE3





Tap a button to select one of the water types (alkaline, acidic, purified)



Tap On/Off button to turn on the water. You will hear the voice notification.

#### RP3





Tap a button to select one of the water types (alkaline, acidic, purified)



Turn the valve to turn on the water. You will hear the voice notification.





- Choose level 1 or 2 of alkaline water. When tapped, the button lights up, you hear the voice notification and pH value is displayed above.
- Tap repeatedly to switch between level 1 ( PHR5 ) and level 2 ( PHR5 ).



- Choose level 3 or 4 of alkaline water. When tapped, the button lights up, you hear the voice notification and pH value is displayed above.
- Tap repeatedly to switch between level 3( PHPD ) and level 4 (PH ↑D )



- Choose strong or weak acidic water. When tapped, the button lights up, you hear the voice notification and acidic water level is displayed above.
- Tap repeatedly to switch between weak ( ☐ ☐ ☐ ☐ ) and strong ( ☐ ☐ ☐ ☐ ) acidic water.



 Tap to turn on purified water. When tapped, the button lights up, you hear the voice notification and Pure is displayed above.



- Tap cleaning button and then tap On/Off button or turn the valve.
   is displayed and cleaning cycle runs for 60 sec.
- Voice notification tells that the cleaning has started and warns against drinking the water running from the ionizer during cleaning.
- After cleaning, Weak Alkaline Water button lights up.



To turn on water in RE3 model, tap On/Off / Mode button after selecting one of the water levels. If you tap On/Off / Mode button without selecting a water type, then weak alkaline water will be turned on by default.



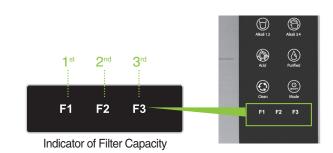
To turn on water in RP3 model, turn the valve after selecting one of the water levels.
 If you turn the valve without selecting a water type, then weak alkaline water will be turned on by default.



Weak alkaline water is selected by default for safety purposes.

#### **Filters Replacement**





#### When It Is Time to Change Filters

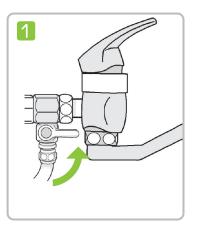
- When it is time to change filter, an indicator will light up in the right bottom part of the ionizer.
- F1 tells to replace first filter, F2 second filter, F3 third.
- Indicators turn on when the remaining capacity is 170 liters or 37 days, whichever comes first.
  You will also hear the voice notification.
- If the filter capacity reaches 0 liters, then
  - RE3 stops working
  - RP3 can give only purified water.



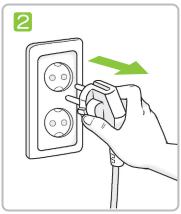
#### **Warning**

- Real filter capacity depends on water conditions in your country.
- Filters should be changed if capacity in either liters or days is used up, whichever comes first.
- Use pre-filters, even the source water quality is very low.
- If water from the ionizer gets odor, then change filters even if their capacity is not used up yet.

## **How to Replace Filters**



Close the Diverter Valve Firmly.



Unplug the ionizer



Open the Filter Cover



Pull forward the filter, which needs to be replaced



Disconnect the filter chip cable



Turn the filter counter-clockwise and pull out.



Put new filter in the filter holder, turn it clockwise to lock.



#### Warning

- Make sure that the rubber ring on the filter's opening is not missing and fits properly.
- Missing or misplaced rubber ring might cause water leaking

# How to Replace Filters





Return the filter cover in place. Plug in the ionizer, turn on and run purified water for 2~3 minutes before using the ionizer.

#### **Change Speaker Volume**



(or previously selected volume level). Regulate volume Alkali 3.4 (+) and Purified (-).



After setting, tap and hold Mode or Mode button for 3 sec to save.

#### 정적왕먹

#### **Water Guide**

#### **Alkaline Water**



#### Level 1 pH 8.5

- For drinking by people new to alkaline water (for the first 1-2 weeks)
- For people with weak stomach until they get used to alkaline water



#### Level 2 pH 9.0

• For drinking by people used to Level 1 alkaline waterer



#### Level 3 pH 9.5

• Making tea and coffee to reduce the bitterness



#### Level 4 pH 10.0

- · Not for drinking
- For cooking
- For washing fruit and vegetables to extend their shelf life and remove chemicals from the surface

#### **Acidic Water**



#### Weak



#### **Strong**

#### **Purified Water**



Drink only purified when taking medicine

\*\*The pH values above are approximate. The actual pH values may differ depending on water temperature, quality, flow, pressure.

#### Caution in use of raw water and maintenance of the Product

- Do not use this product for any purpose other than what's described in this manual.
- Do not modify this product intentionally.
- Do not place heavy objects on this product.
- Do not lift this product body holding the stainless steel tube, it will break.
- Always keep the disposal outlet open so water can drain.
- Use AC110V/120V(American type) and AC 220V~240V (European type) with this product.
- Do not use overly contaminated water with this product. Tap water is best.
- If there is a problem with this product, please call your service center.
- Do not use hot water with this product.
- When the filter change signal is displayed, please change the filter as soon as possible.
- When you do not use this product for more than two days, run water through it for 1~2 minutes before using.
- When you use this product for the first time, run water through it for 2~3 minutes.
- When you do not use this product for a long time (over 1 week), please unplug it, remove the filters, and dry it out.
- Be careful when changing the filters to not damage the O ring. Change the filters carefully.
- Do not use well water, groundwater, contaminated water and water contained with high amounts of heavy metals.
- Do not use water hotter than 35° C with this product. Room temperature water is best.
- Do not supply unit with ionized water.
- Do not use alcohol for cleaning and washing the product. (Only use a gentle soap)
- Change the filter regularly.
- Do not take this product apart.
- Do not shock or shake the unit.

#### **Notices for safety**



#### ⚠ To avoid electric shock, leak and /or fire.

- This product must only use AC110V/120V(American type) and AC 220V~240V (European type).
- Keep the electrical plug free of dust and dirt.
- If the electrical plug is broken, do not use the KYK Product.
- Do not connect too many electrical plugs to one power supply.
- Dry your hands before inserting or removing the electrical plug.
- Do not bend or pull the electrical plug with too much strength.
- Do not take apart or repair the KYK Product without certification.



#### To avoid problems and failures of the KYK product.

- Do not expose the KYK Product to highly moisturized environments such as rain, your bathroom, or your shower.
- Do not place heavy objects on the KYK Product.
- Install the KYK Product on a solid and horizontal countertop or shelf.
- Only use cold water with the KYK Product.
- Do not move the KYK Product while it is operating.
- Do not shock the KYK Product.



#### To avoid leakage

Do not twist or bend the water supply hose.



#### To avoid staining and peeling.

Do not use thinner, benzene, or wax when you clean the KYK Product.



#### To avoid distortion of the KYK Product exterior.

Keep out of direct sunlight or heat.



#### A To avoid impure water and malfunctioning of the KYK product.

■ Be sure to only supply clean, quality water to the KYK Product. Do not hook up directly to a well, lake, river, etc.

## Product Specifications

#### This model has 3 premium filters inside.

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		i nis m	odel has 3	premiu	m mers	Il iside.	® © © ⊚
Manufacturing Permit No		2113 N	Medical Device	e License	No 1	4-2865	
Р	roduct Type/Model	Alkaline Water Ionizer / RE3, RP3					
Manufacturer		KYK Co.,Ltd.(#406~410 Sun-il technopia, 555 Dunchon road, Joongwon-Gu, Sungnam City, Kyunggi-Do, KOREA)					
Man	ufacturing No. and Date	See Backside of Product					
The Purpose of Product		It is an object of the present product to generate alkaline ionized water with pH 8.5~10.0 by electrolyzing edible water, and it is another object of the present product to generate alkaline ionized water with pH 9.5 conducive to improvement of gastrointestinal disorders (chronic diarrhea, indigestion, abnormal fermentation inside the stomach, excessive stomach acid etc).					
Stand	lard Voltage and Frequency	220V AC, 50~60	Hz	Power Co	nsumption	150W	
S	ize and weight Size	425 (W) x 314 (H) x	124 (D) mm /	RE3: 5.2	2 kg, RP3	3: 5.1 kg	
Composi	ition and Water Supply Type Standing	Type Standing. Direct connection to tap water.			Cor	ntrols	Touch buttons
Оре	erational Temperature	5°C~35°C				later Pressure	3.0kgf/cm <sup>2</sup>
El	ectrolysis Method	Continuous electrolysis (including flow sensor)					
LED Display		Shows color-coded pH values, water flow, filters capacity, etc.					
	Output Capacity	Alkaline water 2.0 L/min, Acidic water 1.5 L/min					
olysis	Electrolysis Ability	4 levels of alkaline water, 2 levels of acidic water, purified water					
Electrolysis	Electrolysis Cell	Platinum Titanium Electrode Plates					
	Electrodes Cleaning	Automatic (controlled by MYCOM)					
	Filter Capacity	• 1st filter: 6 Months • 2nd filter: 6 Months • 3nd filter: 12 Months  • Filter type and capacity may be subjected to change by source water, country and region.  • Once filters expired, RE3 stops working and RP3 gives only purified water.					
Filter	When to Change Filters	① Change filters every 6/12 months (even if liters capacity re ② Indicator turns on for each filter when it is time to replace t ③ Real filter capacity depends on the source water quality. Change filters ahead of schedule if water from the ionizer h				ce that filter	
	Filter Type	Composite filters					
	Filter change instructions	See the manual	Filters s	shell mate	rial Non-	-toxic ABS	S
Power Source Protector		Fuse					
Over-current Detector		Automatically stops the electrolysis					
Overheat Protection Device		Temperature detector circuit installed inside SMPS power supply automatically stops the device					



# Warranty Registration

Terms of Warranty: one year parts and labor.						
Purchase Date:						
Customer's	Address:					
	Name:					
	Phone No:					
Seller	Name:					
	Company:					
	Representative:					
	Phone No:					

- 1. Our company will pay for repair, labor and shipping for one year guarantee performance and operations. If repair of the produce is not possible, we will replace the product.
- 2. Customer will pay for repair charges including shipping under the following conditions:
- (1) A malfunction occurs after the warranty has expired.
- (2) The unit is damaged by the customer.
- (3) Damage is caused by customer attempting to repair the unit themselves or the unit is repaired by an unauthorized service center.
- (4) Damage is caused by using the incorrect electrical voltage.
- (5) Damage is caused by using an imitation filter.
- (6) Damage is caused by a natural disaster.
- (7) Damage is caused by exposing the electronics to water or moisture.

