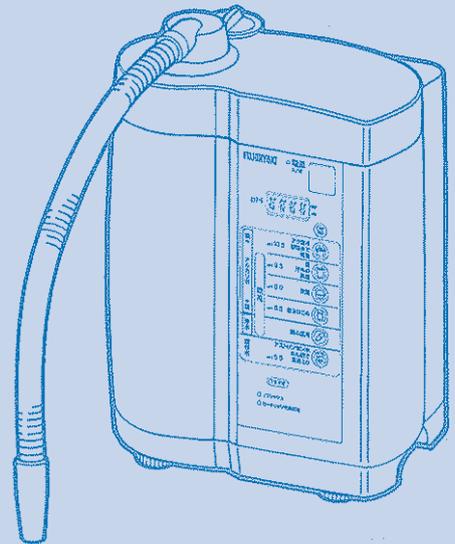


# INSTRUCTION MANUAL

Thank you for purchasing our products.  
The instruction manual says important matter for use.  
Read carefully before use and use this product correctly.  
keep this manual at a safe where you can consult it  
whenever necessary.

## Alkaline ionizer TREVVI

### FW-1000SA





# Directory

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## Please follow the manual for safety

- This notes are the purpose of preventing you or those who are around from harm or damage by using this product correctly.
- The notes are classified as follow,  
Read carefully and follow the notes for your safty.

 <b>WARNING</b>	Improper use may result in serious injury or death or damage.
 <b>CAUTION</b>	Improper use may result in injury or damage to property.* * property refers to houses, household belongings, domestic animals and pets.

<Examples of picture display>

	<p>⊘ mark refers to 「prohibited actions」</p> <p>  「Do not disassemble」              「No use near water place」   「Do not wet」              「No water hands」              「Fire prohibited」       </p>
	<p>● mark refers to 「Must」</p> <p>  「general acts」   「Unplug the power cord」       </p>

- keep this manual at a safe where you can consult it whenever necessary after reading.


**WARNING**

	In case the products drop into water, it may cause electric shock, (1) Unplug the power cord, (2) Raise the product, (3) Ask the dealer for the repair.
	Remove dust from the power cord. Accumulation of dust on the power cord may cause fire due to insulation failure by moisture. ※Unplug the power cord and wipe dust with dry cloth.
	Plug the power cord firmly to the outlet. Inadequate plug may cause electric shock or fire.
	Unplug the power cord during maintainance. (Electrification may occur)
	Do not use this product for the water which is not approved as drinking water. (Disconditioning of body may occur)
	Do not use this product with incorrect voltage. (Fire or electrification may occur)
	Do not damage the power cord and power plug. (Do not do followings) ·Hold with staple ·Damage ·Process ·Bend ·Twist ·Pull ·close to heating equipment ·Put heavy objects ·bundle ·Tucking (it may cause electric shock, fire) ※Grab the power plug and unplug it ※Ask the dealer for repair of power cord or power plug.
	Do not use when the power cord and power plug are damaged or loose. (electrification, fire may occur)
	Do not wash with water or put water on this product (leakage or electrification may occur)
	Do not use in the bathroom or humid place. (leakage or electrification may occur)
	Do not unplug with wet hands (electrification may occur)
	Do not remodel, decompose, repair. (Fire or electric shock may occur) ·Ask the dealer for the repair

# Please follow the manual for safety

## CAUTION

	<p>Those who have following conditions should consult a doctor before drinking ionized water.</p> <ul style="list-style-type: none"> <li>•Persons with chronic disease, abnormal feeling or feeling weak of body.</li> <li>•Persons on the cure under the doctor's supervision, especially have kidney failure.</li> </ul>
	<p>Stop using and consult a doctor when you feel abnormal on the body or no improvement of the symptom can be seen.</p>
	<p>Person who drink ionized water should set pH8.5 first and drink a few cup of water little by little. Increase the pH and the amount of water after you get used to drinking ionized water.</p> <ul style="list-style-type: none"> <li>•A feeling of unwellness may occur when you drink strong ionized water from the beginning.</li> </ul>
	<p>Following conditions should consult a doctor before drinking acid water.</p> <ul style="list-style-type: none"> <li>•Persons with sensitive (weak) skin.</li> <li>•Persons who have allergy.</li> </ul>
	<p>Stop using and consult a doctor when feel abnormal on the skin with acid water.</p>
	<p>Use the ionized water, purified water or acid water immediately. In case of storing water, store in the fridge with closed container and use within 2 days.</p> <ul style="list-style-type: none"> <li>•General bacteria are easy to increase as fungicide in ionized water and purified water is removed.</li> </ul> <p>Drinking the stored water for a long time may cause disconditioning.</p>
	<p>Flow the accumulated water inside the product in the beginning of use.</p> <ul style="list-style-type: none"> <li>•Flow the water for 1 minute (a few cup of water) and use the product in every use.</li> <li>•In case of non-use more than 2 days, flow the water for 2 minutes and use.</li> </ul>
	<p>Persons with renal disease(renal failure, Potassium excretion failure) are not allowed to use.</p>
	<p>Do not take a medicine with ionized water.</p>
	<p>Do not drink the water more than pH.10 (It may cause disconditioning) pH.9.5 water is recommended for drinking. Drink 0.5 to 1 liter per day as a guide of use.</p>
	<p>Do not drink followings (It may cause a feeling of unwellness)</p> <ul style="list-style-type: none"> <li>•Acid water</li> <li>•The water from drain hose</li> <li>•The water under cleaning</li> </ul>
	<p>Do not put into the product except the accessory of Calcium glycerophosphate. (It may cause a feeling of unwellness)</p> <ul style="list-style-type: none"> <li>•Use the accessory or separate option.</li> </ul>
	<p>Do not use except accessory of pH measurement solution</p> <ul style="list-style-type: none"> <li>•Use the accessory or separate option.</li> </ul>
<p>Do not use the copper or aluminum container which is weak to alkali. It may cause discoloration or damage to the container.</p>	


**CAUTION**

	<ul style="list-style-type: none"> <li>•Do not use the hot water over 35°C in the product. (It may cause product malfunction)</li> <li>•Do not use the hot water over 50°C in the branch faucet. (It may cause burn or product malfunction)</li> </ul>
	Do not use ionized water, acid water, purified water as breeding water for fish. The fish may die because of the change of environment.
	Do not drink the water which pH measurement solution is included or do not put them into eyes. (It may cause a feeling of unwellness)
	Do not drink the water when digital display or rinse lamp is blinking. (It may cause a feeling of unwellness)
	Do not put the pH measurement solution close to fire as it contains alcohol. (It may cause fire)
	Use accessory of pH measurement solution and examine the pH after installation and no use for a long time. Use the product after the water of pH9.5 is not over pH10 by the examination. Keep examining the water more than once a month.
	Pull out the power plug by holding the actual power plug and not the cord. (This may cause electrification, short circuits, or fire.)
	Unplug the power cord when not using for a long time. (more than 1 week)
	Ask the dealer when the product is installed in wall-mounted. (It may cause an accident by the product dropping)

● **What is pH?**

It indicates the amount of hydrogen in water and show whether the water is alkaline or acidity.

Acidity                  Neutral                  Alkaline  
(smaller number) ← (7) → (bigger number)

● **What is ORP?**

It indicates electric energy to oxidize or reduce material.

- Higher plus number is stronger to oxidize.
- Lower minus number is stronger to reduce.

- Use 3 types of water for each situation

PH adjustment button		Use	pH
Alkali	10.5	Cooking for the food which has strong scum. ⚠ CAUTION Do not drink directly.	10~11
	9.5	For daily drinking, coffee, tea, boiled food, soup.	9~9.9
	9.0	When getting used to drink, cooking rice.	8.5~9.5
	8.5	Beginning of drinking.	8~9
Purified water		Filtered water by a cartridge. For medicine, milk, drinking. ※It is not decomposed by an electric current.	—
Acid water	5.5	For face washing ⚠ CAUTION Do not drink	4.5~6.5

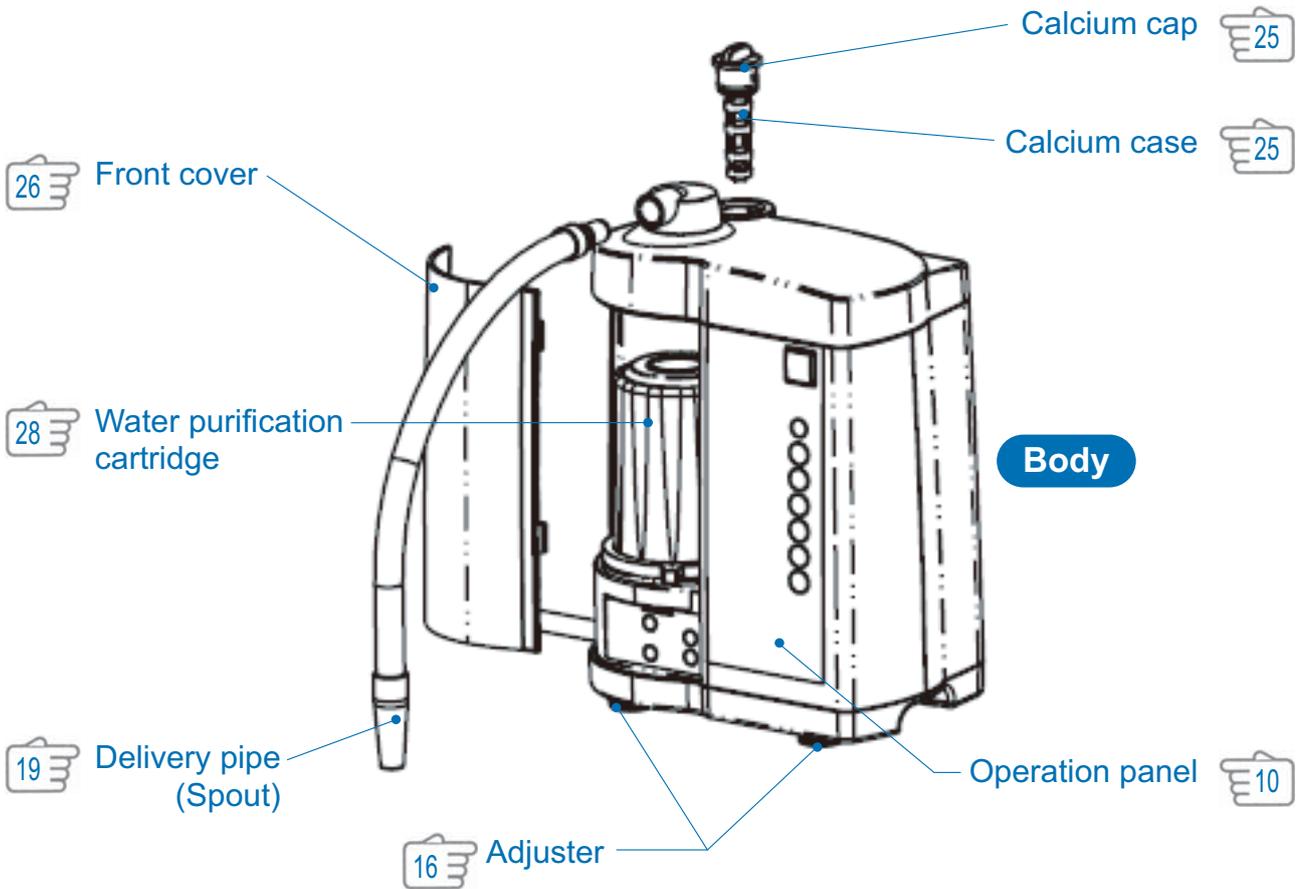
- Eye-friendly digital display
  - Current created water condition can be seen easily on the digital display.
  - Show pH and ORP.
- One-touch pH adjustment button.
  - Favorite pH water can be selected with one-touch.
- Multi-branch faucet
  - Protect the product by the notification of safty valve in the area that is high water pressure of tap water.
  - Protect the product by hot water shut-off function if the hot water is flowed by accident.
- Accidental ingestion prevention function
  - Alkaline ionized water(for drinking) is created preferentially and prevent accidental ingestion of acid water.
  - The alarm announce when undrinkable strong alkaline water and acid water is used.
- Notification function of water purification cartridge exchange.
  - Cartridge exchange lamp blinks and lights up for the time for replacement of water purification cartridge.

**Attention**

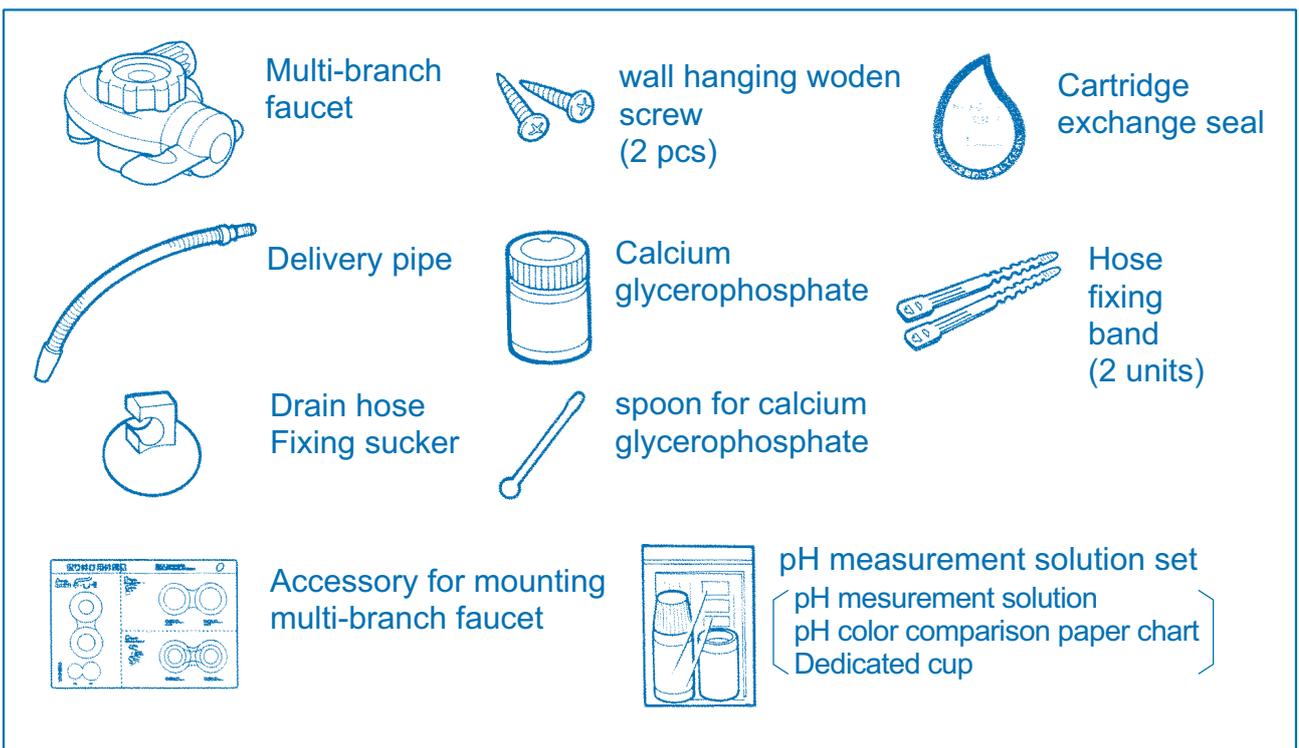
Specified pH may not be obtained by the area or water quality.  
Especially the tap water containing more carbonate may not show the actual alkaline due to the carbonate.  
Carbonate is removed by boiling the alkaline water and actual alkaline is shown.

## Name of each part

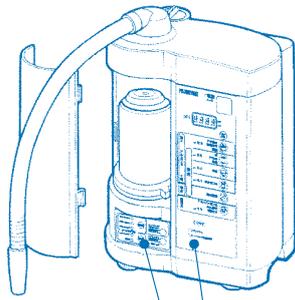
 the numbers in this discription indicate the page that the explanation is written.



### <Accessory>



# Name of each part



Setting panel

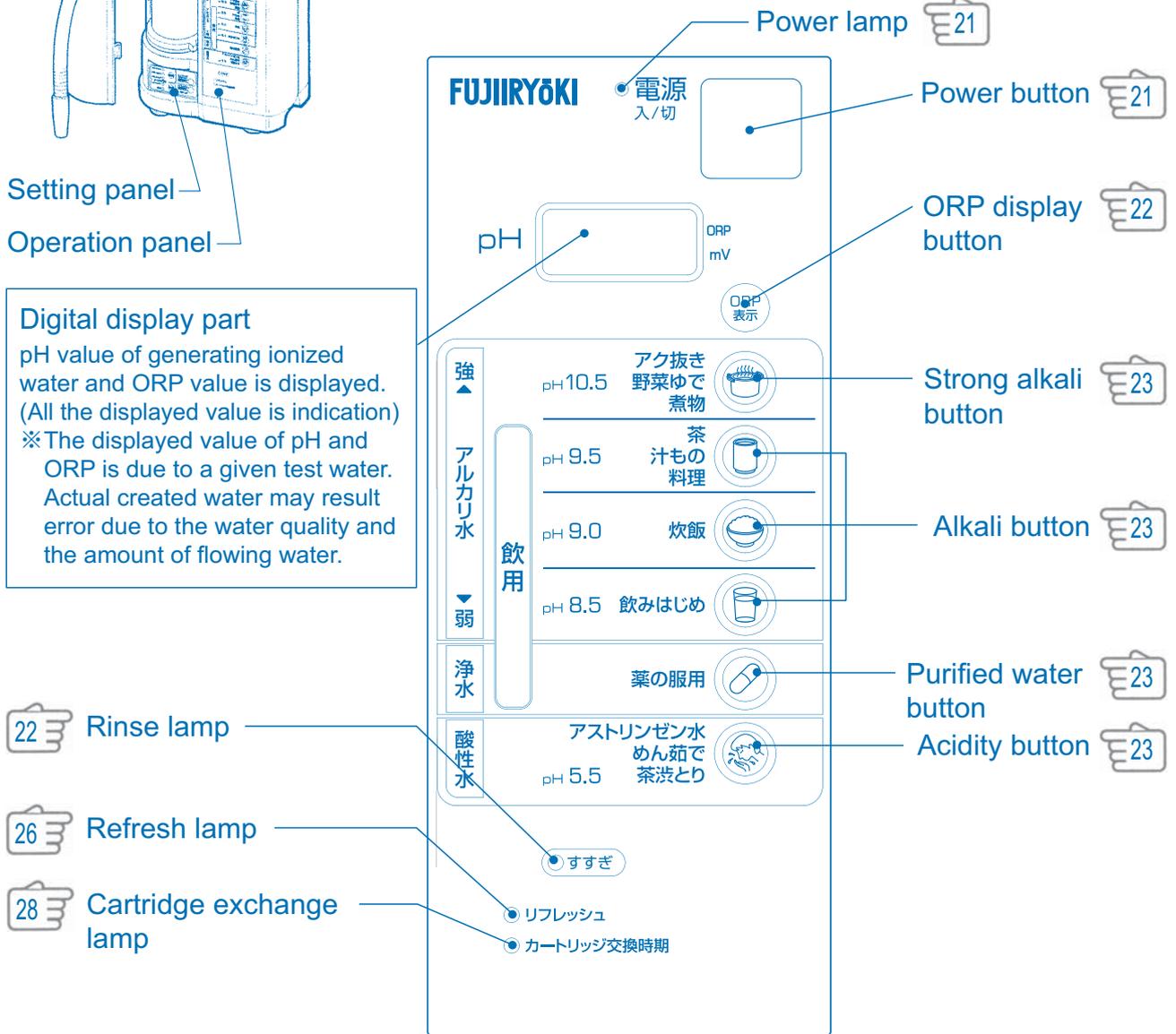
Operation panel

### Digital display part

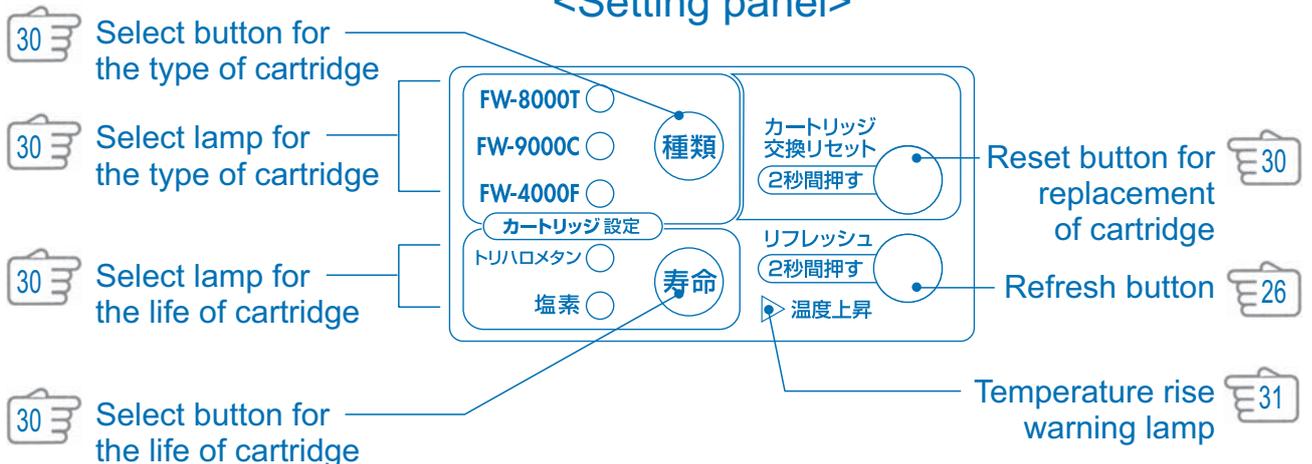
pH value of generating ionized water and ORP value is displayed. (All the displayed value is indication)  
 ※ The displayed value of pH and ORP is due to a given test water. Actual created water may result error due to the water quality and the amount of flowing water.

the numbers in this discription indicate the page that the explanation is written.

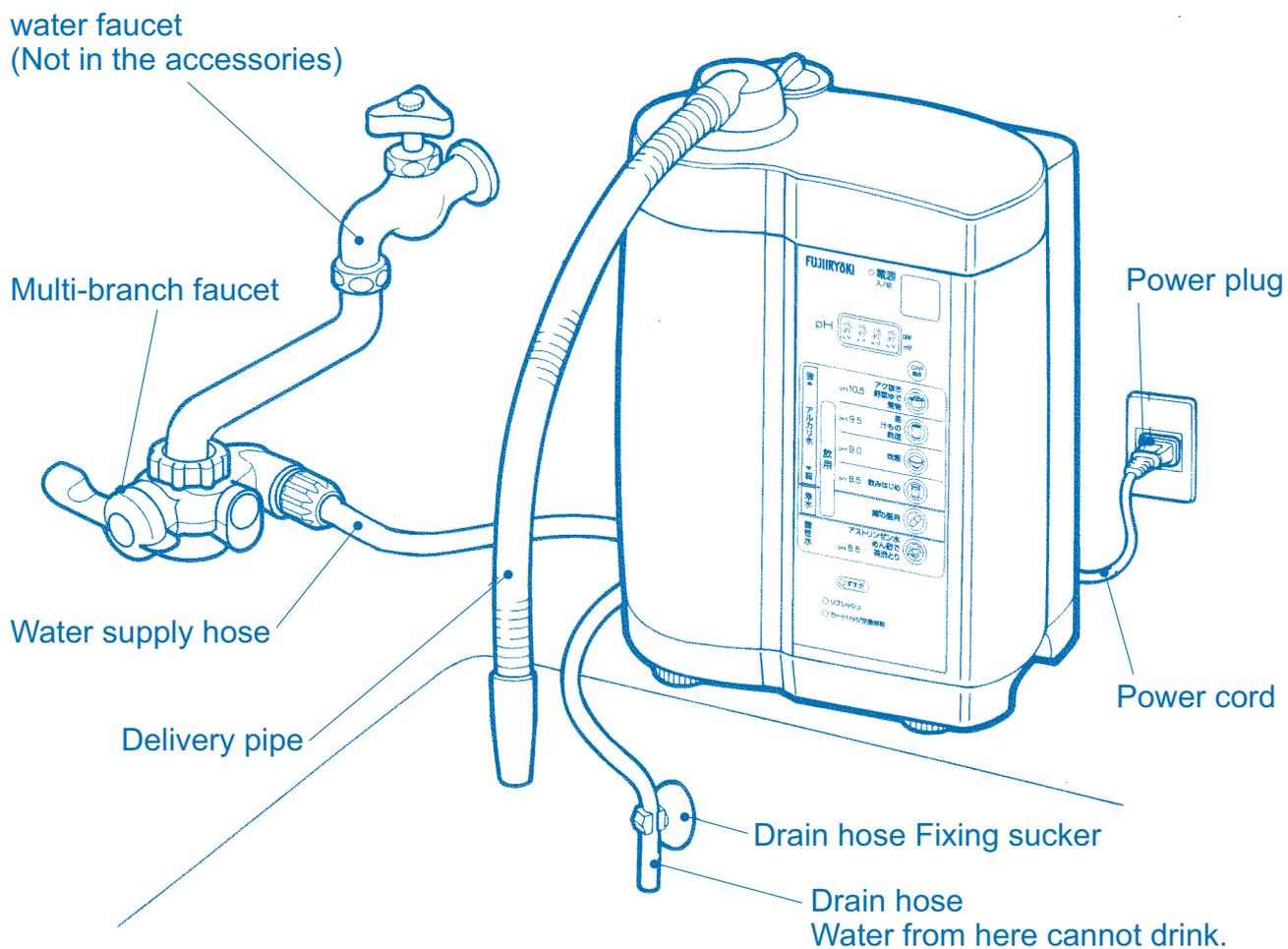
## <Operation panel>



## <Setting panel>

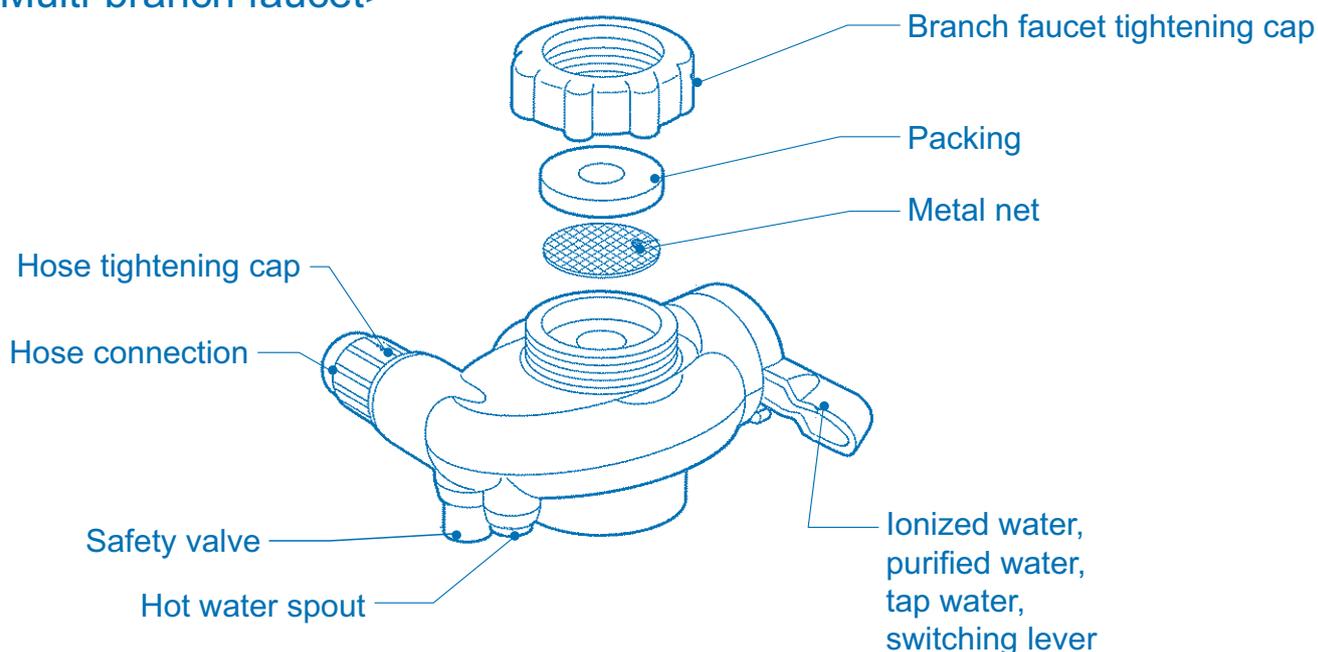


### <Mounting completion drawing>



## Name of each part

### <Multi-branch faucet>



- Hose tightening cap.....secure the water supply hose firmly to hose connection
- Hose connection.....connect the water supply hose
- Branch faucet tightening cap.....secure the branch faucet firmly to tap.
- Ionized water, purified water, tap water switching lever.....  
 [Ionized water, purified water] can switch.
- Packing.....Prevent water leakage from the connection of branch faucet and tap.
- Safety valve.....Water come out when the water pressure become too high inside the product.
- Hot water spout.....hot water come out from the spout when switching lever is set on ionized water, purified water and hot water over 50°C flow.
- Metal net.....Remove the accumulated garbage with brush when the amount of tap water, ionized water, purified water is less or after using for a long time(more than 6 months)

### ● How to use Ionized water, purified water, tap water switching lever



## How to attach multi-branch faucet

Multi-branch faucet is easy to attach.

### Works

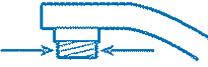
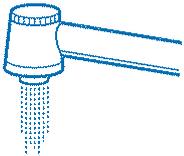
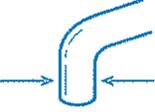
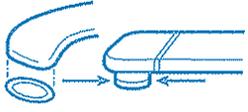
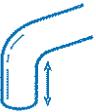
- The branch faucet prevent that hot water flow into the product by hot water shut-off function when hot water (more than 50°C) is used by mistake.
- Hot water shut-off function is released when the cock of tap water is switched to water mode.
- Water come out from safty valve and announce that the water pressure inside the product is too high when water pressure of tap water is high or the water pressure inside the product become about 500kPa(5kgf/cm<sup>2</sup>) caused by clogging of dirt in the cartridge.  
(Reduce the water pressure by squeezing the cock of tap water when water come out from safty valve.)

### CAUTION



Use ionized water, purified water less than 35°C.  
(It may cause product malfunction.)

Multi-branch faucet is not attachable to following water faucet.

Diameter of external thread (more than 23mm)		With shower	
Diameter of faucet (more than 23mm)		Deformation Special diameter of screw	
less than 14mm of forefront		With sensor	

# How to attach multi-branch faucet

## CAUTION

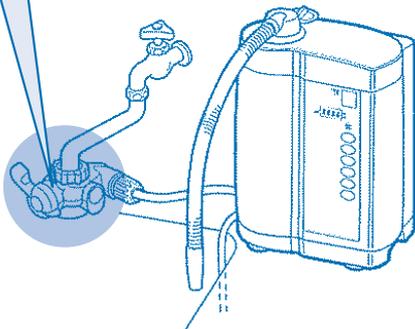


Use the mounting accessories that is fit to the diameter of faucet.  
(It may cause water leak)

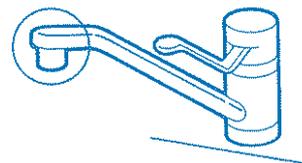
## Notice

It may cause water leak from the mounting part if the faucet is made of plastic.  
Recommend to change the faucet.

Attach this part



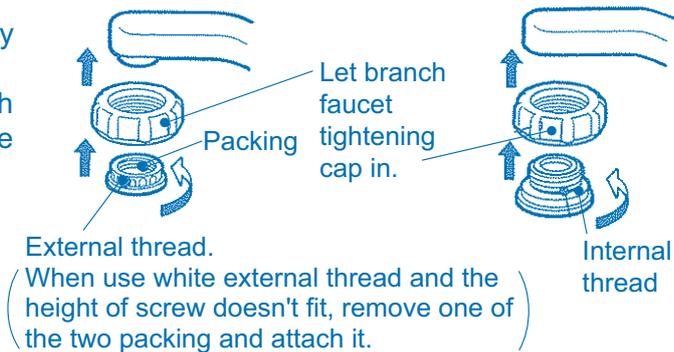
In case there is bubble on the head of faucet.



Remove whole the bubble.

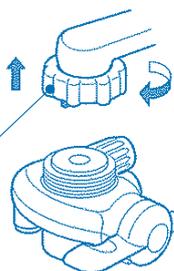


Turn the accessory of external and internal thread with coin and attach the Branch faucet tightening cap on the faucet.

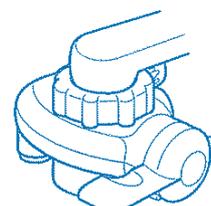


Tighten the branch faucet tightening cap with fitting the branch faucet horizontally from underneath.

Branch faucet tightening cap



Completion drawing

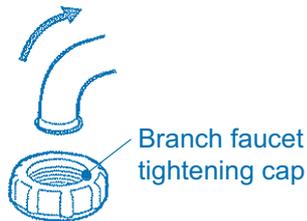


When there is bulge on the head of faucet.

measure the diameter of pipe with the mounting accessory of the board.



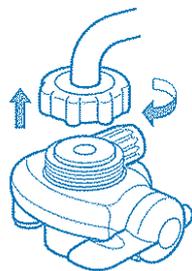
Let the branch tightening cap into the pipe.



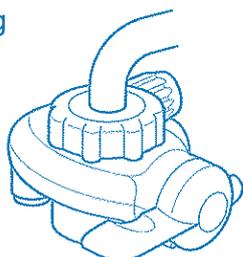
Let the 16mm or 19mm of mounting accessory into the pipe.



Place the branch faucet onto the faucet horizontally and tighten the branch faucet tightening faucet.



Completion drawing



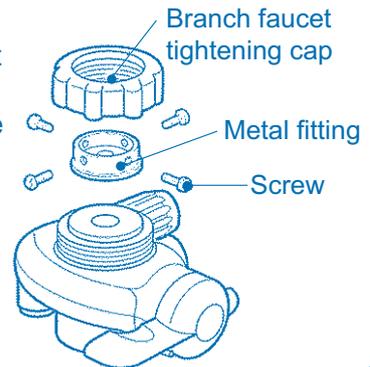
When there is no course on the head of faucet

How to attach metal fitting of screws.  
※metal fitting of screws is not included in this product.

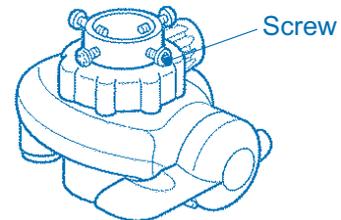
Ask the dealer where you purchased.

(When 16mm, 19mm of accessory do not fit.)

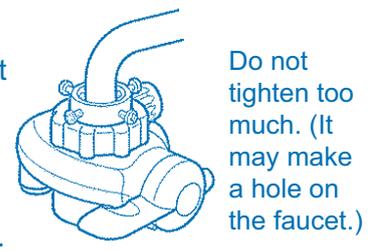
Remove the screw and let the metal fitting into the branch faucet.



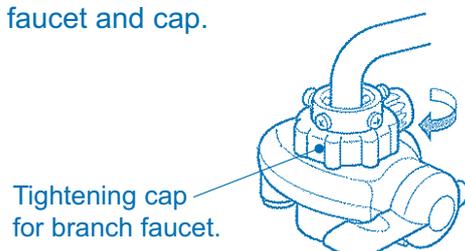
Reattach the screw



Loose the screw and place the branch faucet onto the faucet horizontally with pressing and tighten it.



Tighten the branch faucet and cap.



# Installation of product body

 <b>CAUTION</b>	
	<p>Install the product body on the horizontally. Do not install this on unstable, wobbly, tilted place. (It may cause injury due to dropping or falling the product.)</p>
	<p>Do not install following place. (It may cause deformation, discoloration, malfunction or failure.)</p> <ul style="list-style-type: none"> <li>•Near the ones that get hot(over 60°C) or the place which the fire is used.</li> <li>•Near or on top of the microwave, Electromagnetic cooker,Refrigerator.</li> <li>•Where it is exposed to direct sunlight.      •Where the oil is attached.</li> <li>•Where it is exposed to wind and rain or outdoors.</li> <li>•Bathroom or where it is exposed to water, steam.</li> <li>•Where there is a possibility of freezing</li> </ul>
	<p>Do not extend the water outlet with commercial hose. (It may cause failure.)</p>
	<p>Do not connect other equipment to water supply hose or drain hose. (It may cause water leak or failure.)</p>
	<p>Do not oppilate the water outlet, bend or twist or collapse the hose. (It may cause water leak, failure or malfunction of pH)</p>
	<p>Do not install hot-water supply equipment without check valve of water. (It may cause failure to hot-water supply equipment.)</p>

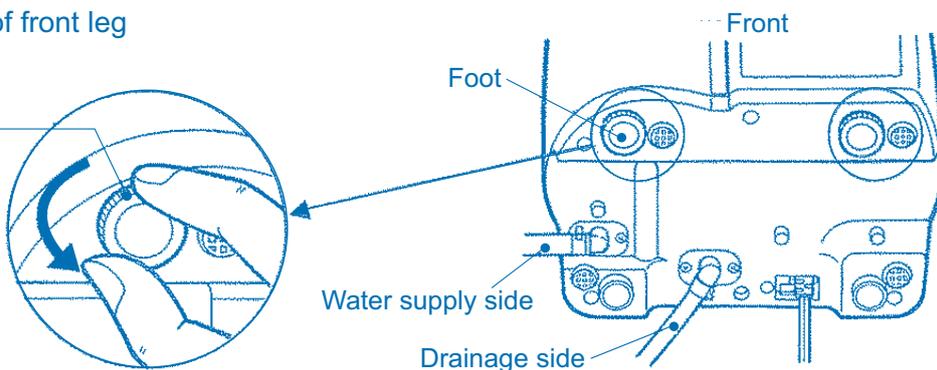
## Attention on installation

- Do not install the product to the water faucet which is hot water only. (It may cause failure.)
- Do not put anything in front of the product so that operation of button is easier.
- Install the product without crushing the power cord, water supply hose, drain hose by the product body.

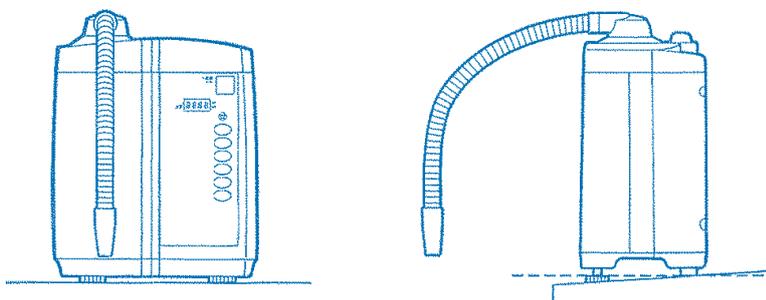
## In case of installing the product on the place of the slope.

Adjust the length of front leg along with the tilt.

Adjuster:  
The foot of machine gets longer when turn it to the left.



- Install the machine horizontally.



## In case of using over the wall.

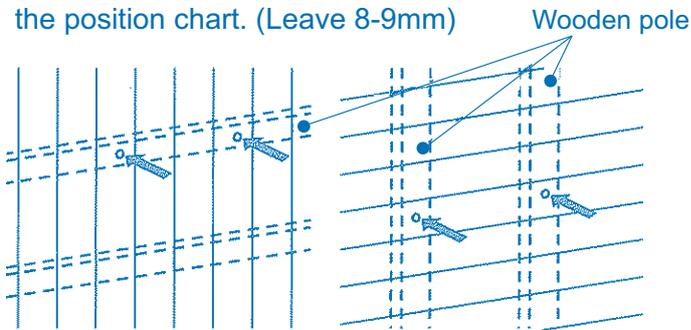
### CAUTION



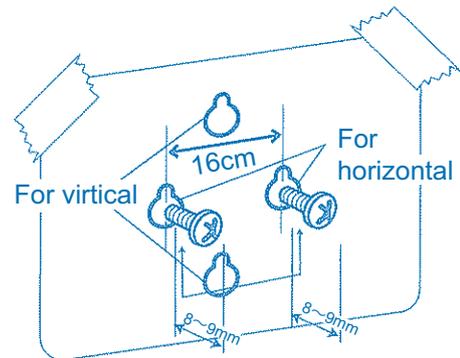
Make sure to ask the dealer for the installation in case of using the product over the wall. It may cause an accident by dropping the machine.

1

Cut 「Screw hole position chart for the wall」 page on 18 along with dotted line, put the tape and screw the wooden screw in the accessory from the top of the position chart. (Leave 8-9mm)



※Screw the wooden screws in either vertical one or horizontal one.

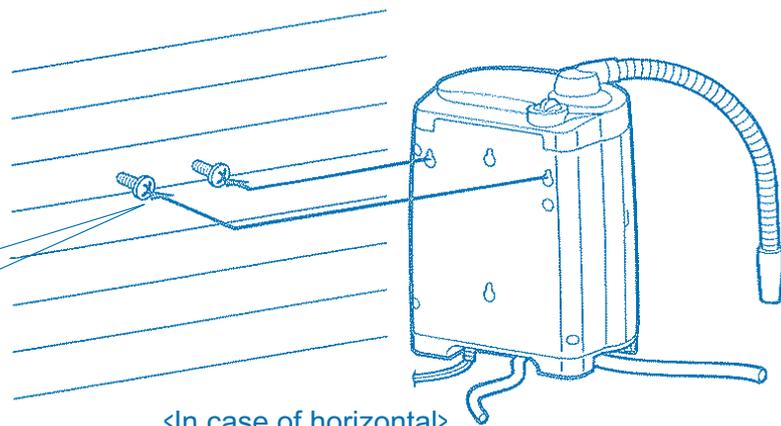


<In case of horizontal>

2

Hook the mounting hole in the back to the wooden screws.

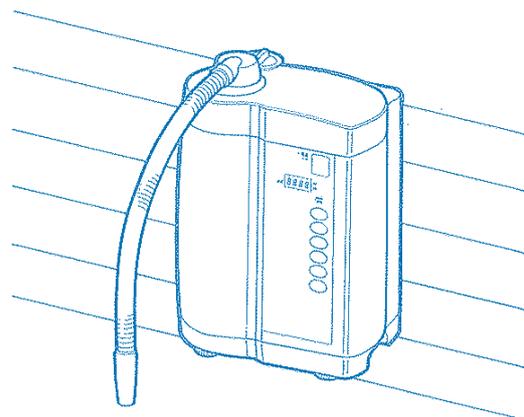
Make sure to use specified wooden screw.



<In case of horizontal>

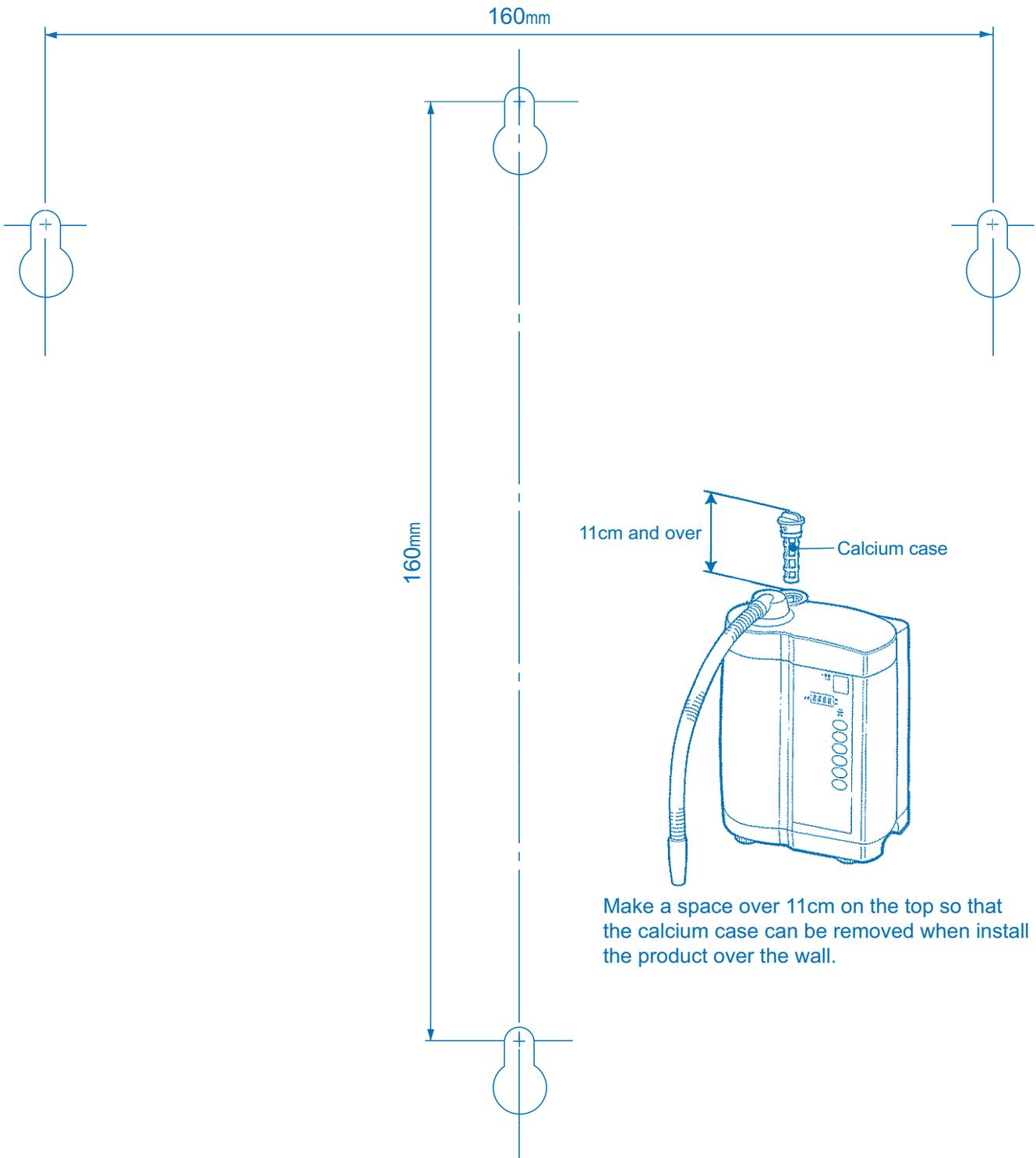
### <CAUTION>

Do not attach to the plywood or soft wall as the weight is 5.5kg when the water is full capacity.



## [ Screw hole position chart for wall ]

Cut the seat along with cutoff line and use it for the reference of screw hole position.  
Make sure to save it after using.



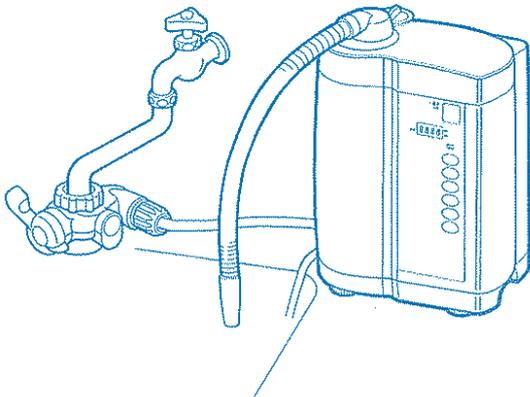
Cutoff line

## How to attach the delivery pipe

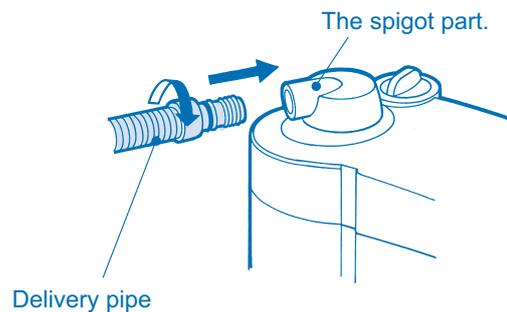
### Attention

- Do not extend the water outlet with hose.  
(It may cause water leak or failure)
- Do not screw forcefully as the spigot is made of plastic.  
(It may cause water leak or failure.)
- When bend the delivery pipe after installation, grab the root and bend it with another hand.

Attach this part



Screw the delivery pipe to the root.

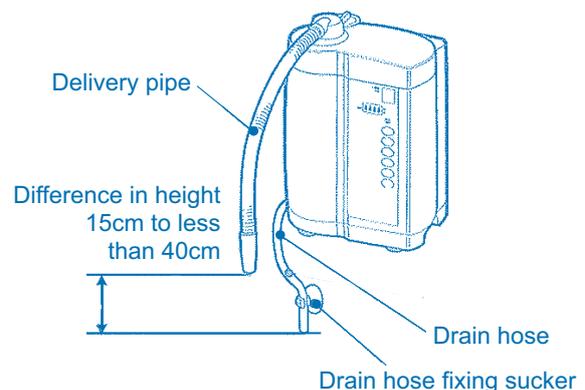


## How to attach the drain hose.

### Attention

- The difference in height of tip of delivery hose and drain hose should be 15cm to less than 40cm.
- Drain hose should be lower than the bottom of the product.
- If the drain hose is too long, cut and use it.
- Make sure the drain hose does not bend.
- Do not extend the drain hose.

Secure the drain hose with drain hose fixing sucker.



# How to attach the water supply hose

## ⚠ CAUTION



Do not bend or twist the water supply hose.  
(It may cause water leak)

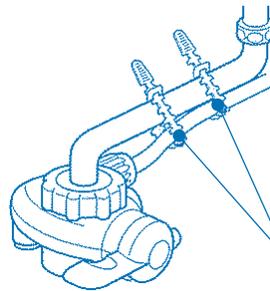
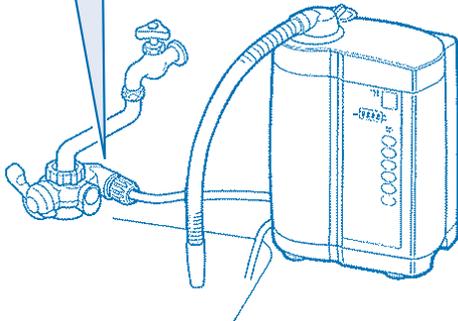
Do not connect with the faucet of hot water only. (It may cause malfunction)

Do not use hot water when connected with mixing faucet.  
(It may cause malfunction)

### Attention

- When the Multi-branch faucet is attached to the faucet, make sure to keep enough room so that the water supply hose can move right and left.

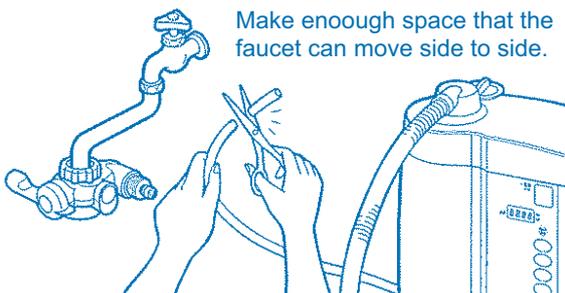
### Attach this part



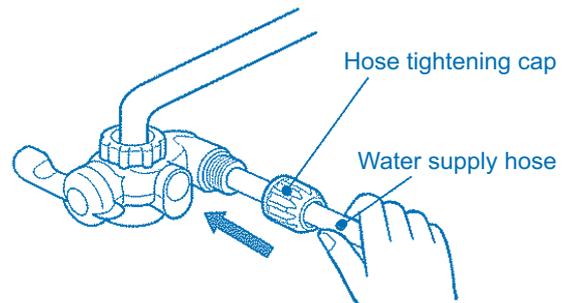
- The thicker one is the water supply hose, thin is the drain hose. When the hose is connected, check the character of water supply and drainage in the bottom of the product.

Recommend to band faucet and water supply hose with hose fixing band in accessories.

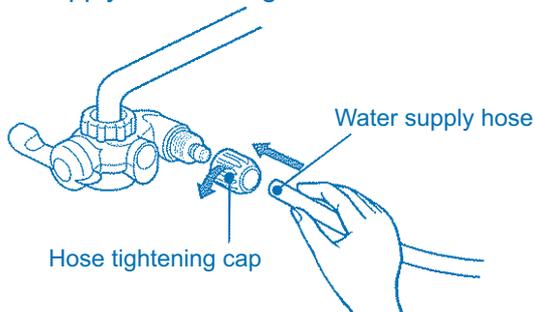
- 1** Cut the water supply hose to match the distance between the body and the branch faucet.



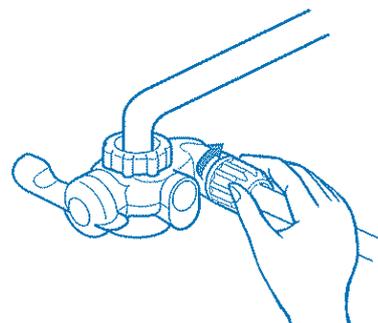
- 3** Stick the water supply hose to the root of hose connection port.



- 2** Remove the hose tightening cap from the branch faucet, pass the water supply hose through the branch faucet.



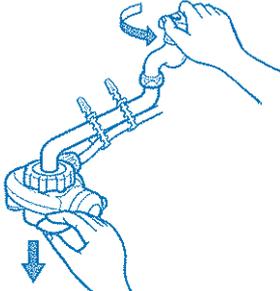
- 4** Make sure to tighten the hose tightening cap.



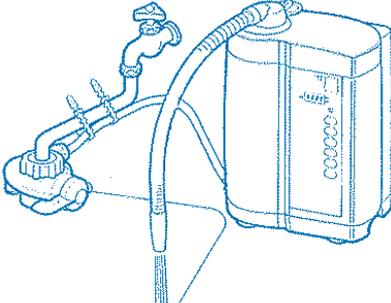
## Make sure to do followings when it is used for the first time to run the water after installation.

- Remove the front cover and make sure the cartridge is assembled.
- Do not power on, and flow water until the water become clear.

1 Turn the switch lever to 「Ionized water・Purified water」 and open the cock.



2 Run water without power on until water become clear for the first time.



- In case water come out from the safty valve of multi-branch faucet, squeeze the water cock because the water pressure is too high.

## How to use alkaline ionized water, acid water, purified water.

### CAUTION

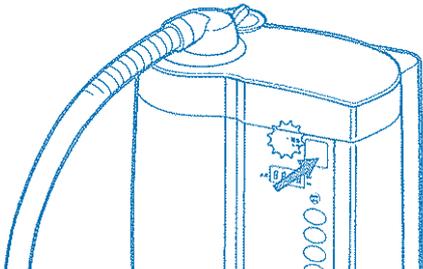


Use the product after 1 minute of flowing water in the begining of the use every day.  
Waste a fwe cup of water before each use.  
(The purpose of keeping hygiene.)

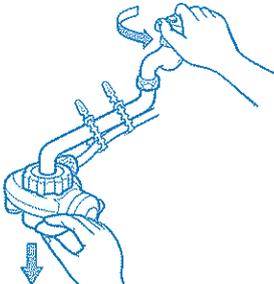
### Attention

- Switch the lever to 「Tap water」 and use it after the water become clear as the water after the water supply work may become cloudy.  
(It may cause the clogged filter in the cartridge.)
- Do not unplug the power plug, do not use the product remining the power off.  
(If the product is used without energization, life time of cartridge cannot be counted well and the time of exchange of cartridge may be different.)

1 Plug into erectrical out let and push the power button.  
(Power lamp is on)



2 Turn the switch lever to 「Ionized water・purified water」 and open the cock.



# How to use alkaline ionized water, acid water, purified water.

**3**

**Digital display**  
Display the pH of pushed water type.

**ORP display lamp**  
Light on during ORP button is pushed.

**ORP display button**  
Digital display indicate the ORP during this button is keeping pushed, pH is displayed when it is released.

**Push a button for the use.**  
Pushed button lights on.

**Rinse lamp**  
Digital display lights off and rinse lamp blinks during rinsing.  
Rinse lamp blinks and stops the electrolysis when the water that electricity is easy to go through pass. Keep flowing water and use it again. In case that the blinks don't disappear with above treatment, ask the dealer where you purchased from.

- **Use this product after the digital display change from blinks to lighting.**  
Digital display changes to lighting after water pass for 3 seconds with blinking.  
If the passing water is too much when using 「Strong alkaline ionized water」, it remains blinking.  
In this case, close the cock slowly until the display changes to lighting.  
(Digital display lights off when water is not passing or when using 「Purified water」.)
- **Accidental ingestion prevention function work to prevent from the accidental ingestion of 「Strong alkaline ionized water」・「Acid water」.**  
「Strong alkaline ionized water」・「Acid water」 automatically change to 「Alkaline ionized water」・「Purified water」when use it again.
- **It keeps alarming during the use of 「Strong alkaline ionized water」・「Acid water」.**

**4** **Close the cock and turn the switch lever to 「Tap water」 after using.**

In the following case, the product operate automatic cleaning to maintain the capability of the product and it sounds a clicky sound after cleaning.

- When the cock is closed, the switch lever is switched to 「Tap water」 after using alkaline ionized water.

The sound means that electric component is operating, this is not a malfunction.

### Alkaline ionized water

Use the 「alkaline ionized water」 from the delivery pipe after pushing alkali button, strong alkali button.……(Caution) 「Strong alkaline ionized water」 is not drinkable.

- Keep and use 「Acid water」 from drain hose.

### Acid water

Use 「acid water」 from delivery pipe after pushing acid button.

- Alkaline ionized water come from drain hose but it cannot be used since pH is too high.

(Caution)

When using 「acid water」, if water amounts are much less(※1), pH may be lower than displayed pH. Digital display says pH5.5 but check with the pH testing liquid.

※1 Much less water amounts refers to 1.5/min or a cup of water per 6 seconds.

### Purified water

Use 「Purified water」 from delivery pipe after pushing purified water button.

- Do not use the purified water from drain hose.
- Purified water also can be used when the power is turned off. (Not for ionized water)

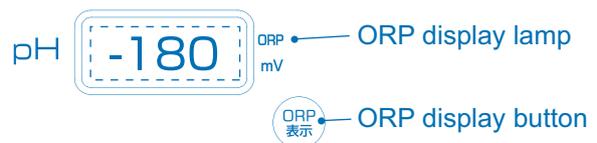
※ Cartridge life-time doesn't count when the power is turned off. If it keep using 「purified water」 with power off, it may cause a difference for the period of cartridge exchange.

## Check with ORP

Display the ORP\*(indication) of creating water when push the ORP button while alkaline ionized water, acid water is running.

※ ORP is displayed the value under the particular condion. It is not the measured value of actual created water. (Actual value may be different depends of water quality.)

ORP value is displayed and ORP display lamp lights on at digital display part while pushing ORP display button when water is running. pH is displayed when release the hand from the ORP button.



- When stopping the purified water mode, ORP value is not displayed even if ORP display button is pushed.

## Precaution for use

- When use this product in the area which the water hardness is high, run acid water for about 1 minute before using every day.  
(Water runs worse because calcium adheres to spout or conduit)  
※ The area which water hardness is high: the bubbling of a soap is getting worse or white substances(calcium) adhere to kettle or pot.
- The water which contains salt such as seawater or well water (near coast) doesn't go through.
- Do not lift the product with holding delivery pipe or cartridge.(It may cause malfunction.)

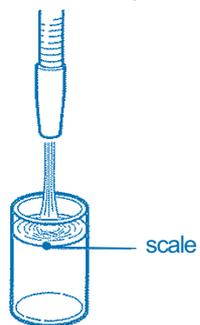
# Measure the pH value of ionized water

## CAUTION

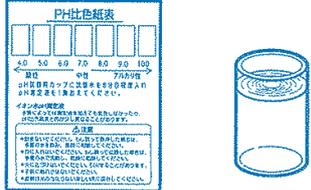
	<p>Do not drink or put into the eyes the water which contains pH testing liquid. (Especially care for children.) It may have a risk of damage to physical condition.</p> <ul style="list-style-type: none"> <li>• Take large amounts of water and consult a doctor when drink it by accident.</li> <li>• Wash the eyes enough and consult a doctor when it puts into the eyes by accident.</li> <li>• Save it in the place that infants don't reach with a lid.</li> </ul>
	<p>Do not close fire as pH testing liquid contains alcohol. (It may cause fire)</p>

- Make sure to check the pH value by the accessory of pH testing liquid whether water doesn't exceed pH10 when setting pH9.5 and use it in case that the product isn't use dfor a long time (approx. more than 1 week) or after installing.  
Test the pH regularly(more than once per month)
- Run alkaline ionized water more than 10 seconds and take it with special cup of accessory. (The purpose of testing stable pH value)

**1** Put the alkaline ionized water into the scale in the special cup.

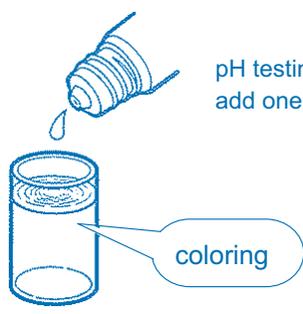


**3** Compare the color of colored water and pH comparison paper. Same color indicates the pH value of alkaline ionized water.



PH comparison paper

**2** Add one drop of pH testing liquid in the alkaline ionized water and shake the cup a little.



pH testing liquid add one drop.

**Notice**

- In case of using the tap water which is based on well water in the area, it may contain much carbonic acid. The pH value and pH testing liquid may show the difference because of the effect of this carbonic acid. Refer to page 32 that says about reason and treatment of [Alkaline ionized water doesn't show blue or mazarine with pH testing liquid] when check if the water contains carbonic acid.
- pH value of alkaline ionized water may not rise depends on water quality. Try following treatment in this case.
  - Add Calcium glycerophosphate. (Refer to page 25)
- Try following treatment in case pH value is high.
  - Switch to weak alkali mode
  - Mix purified water and use it.

**Attention**

- Test water color change when the time pass. Compare with pH comparison paper before the time pass.
- Dilute the liquid concentrate of pH testing liquid with water and throw away to the sewer.
- Save the pH testing liquid and pH comparison paper in the dark place because these change the color by the sunlight.

How to use

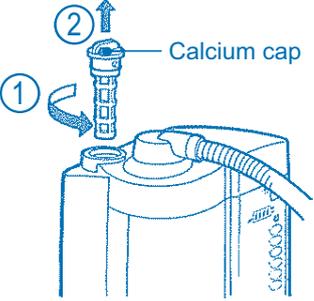
# Refill glycerophosphoric acid calcium

Calcium(calcium glycerophosphate) is to be used in case pH value doesn't rise or to promote electrolyzation.

※It is not for the purpose of ingestion of calcium.

● Make sure to do this action after closing the cock of tap water.

1 Turn the calcium cap to the left and take it out.



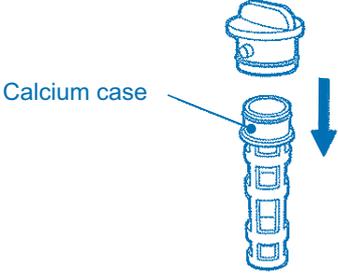
Calcium cap

3 Put the calcium glycerophosphate of accessory into the calcium case with a spoon.



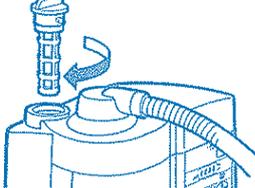
Put it to this line.  
(about 5 cups of spoon)

2 Pull out the calcium case



Calcium case

4 Push the calcium case to the calcium cap as far as it goes and turn it strongly to the right and attach it to the product.  
(Water leaks if it is not attached enough.)



## Attention

- Do not use except the specified calcium.
- Make sure to conform to the amounts of calcium.
- Take out the remaining calcium when not use for a long time(more than about a week).
- Clean the calcium case and cap once a week.  
It may get moldy if the calcium case get dirty.
- How to melt the calcium is different depends on water quality, water temperature, how to use.
- Ask for the purchase of specified calcium to the dealer where you purchased from.



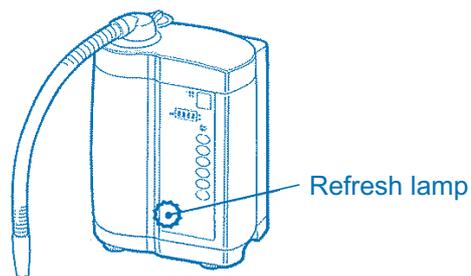
# Cleaning inside the product

## CAUTION

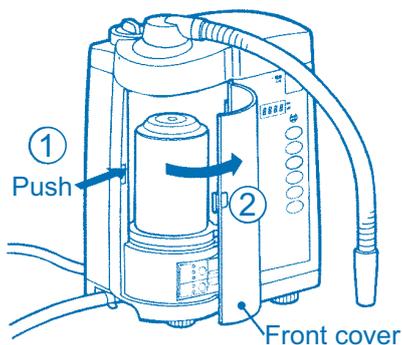


Do not drink the water in the cleaning.  
(It may cause ill health.)

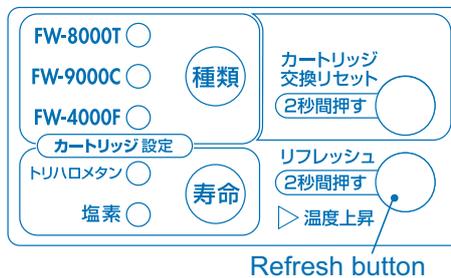
- If [Alkaline ionized water] is kept using, calcium adhere to the electrode plate and it may not get enough performance.  
When the total use hours reach to a given time, refresh lamp lights on and inform the timing of cleaning.
  - The refresh lamp usually lights on in about a month.  
(In case of using water for 10 minutes a day.)
- Follow a procedure for the cleaning as below when refresh lamp lights on.



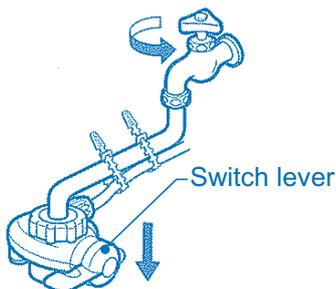
- 1 Turn on the power and take the front cover out.



- 3 Keep pushing the refresh button on the setting panel for more than 2 seconds.  
Refresh lamp blinks and alarm.



- 2 Turn the switch lever to [Ionized water·Purified water] and open the water cock.  
(Do not stop running the tapwater during cleaning.)



- 4 Keep running water and confirm the refresh lamp lights off and stop alarming after 2 minutes, then close the water cock.  
Cleaning is finished.



## ⚠ CAUTION



Do not pour water to the product or wash the product by water.  
(It may cause electrification or leakage.)

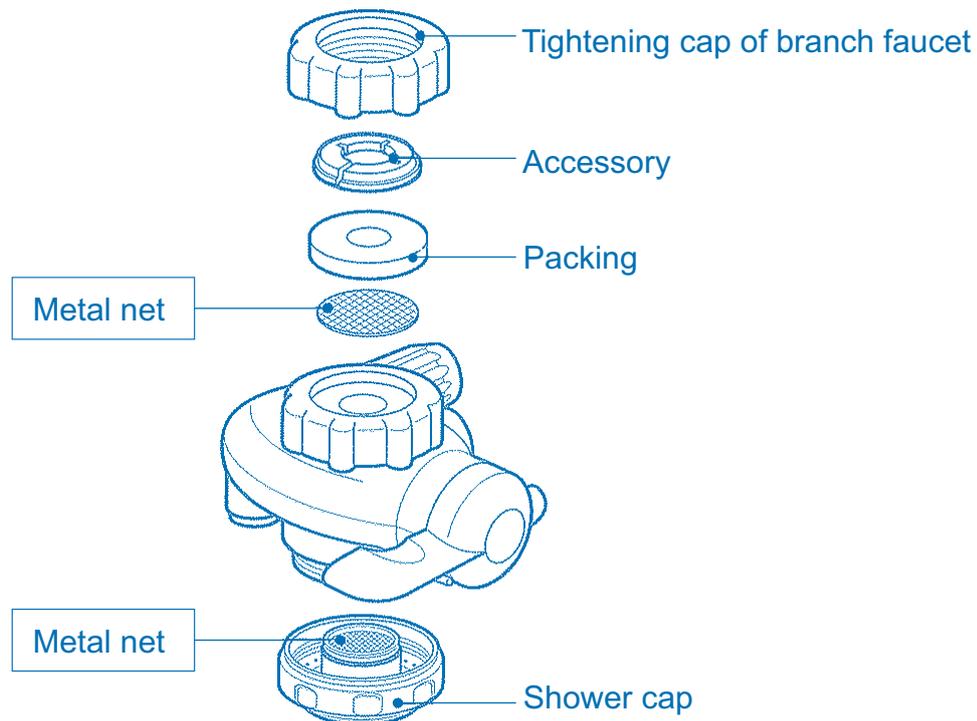
Squeeze a soft cloth with kitchen detergent that is diluted with water and wipe the dirt on the product or multi-branch faucet.

### ● Maintenance for multi-branch faucet

If garbage build up in metal net of multi-branch faucet, it may have clogging and water quantity become less.

Take apart the multi-branch faucet and remove the garbage in the metal net or shower cap with toothbrush when 「Purified water, Ionized water」 「Shower of tap water」 「Straight of tap water」 become less amount or after using more than 6 months.

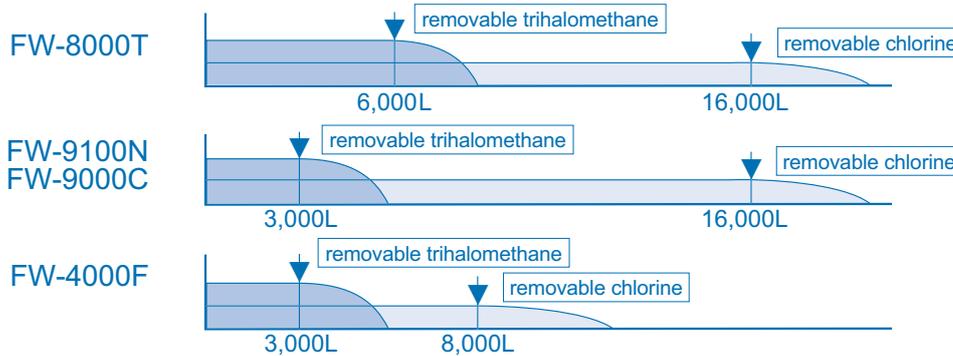
- Pay attention not to lose the parts when it is taken apart.
- Refer to the assembling drawing not to make a mistake.



# Exchange of cartridge

- There are 4 types of cartridge with filter ability and capability. Refer to the feature of these types and exchange.
- The cartridge of 「FW-9000T」 is included with shipment.
- Life time of cartridge is counted by used amount when it reach to the limit of filter ability of 「filter ability of chlorine」 「filter ability of trihalomethane」 and set to sign by lighting up of 「cartridge exchange lamp」  
Filter ability or capability may fail to a lower level until reaching the limit of used amount
- depending on the water quality.

## ■ Type of filter



- The cartridge is designed to filter residual chlorine in tap water.
    - FW-9100N · FW-8000T : Filter ability for 16,000L of chlorine, cartridge exchange lamp lights on with the use of 16,000L when life time setting is 「chlorine」 .
    - FW-9000C : Filter ability for 16,000L of chlorine, cartridge exchange lamp lights on with the use of 16,000L when life time setting is 「chlorine」 .
    - FW-4000F : Filter ability for 8,000L of chlorine, cartridge exchange lamp lights on with the use of 8,000L when life time setting is 「chlorine」 .
  - Set life time as "Trihalomethane" if concern about trihalomethane and exchange it earlier. ( It has different filter ability of trihalomethane depends on the type of cartridge.)
    - FW-8000T : Filter ability for 6,000L, cartridge exchange lamp lights on with the use of 6,000L when setting for trihalomethane.
    - FW-9100N · FW-4000F : Filter ability for 3,000L, cartridge exchange lamp lights on with the use of 3,000L when setting for trihalomethane.
- ※Refer to page 30 for setting of cartridge.

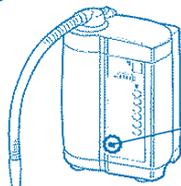
## ■ The period of cartridge exchanging is different by the amount of use. Refer to the following chat.

Total use per day (ionized water + discharged water)	Life time setting for cartridge			
	※1 The case of setting for "chlorine mode" with 2mg/L of concentration of law water		※1 The case of setting for "trihalomethane mode" with 0.1mg/L of concentration of law water	
	FW-9100N · FW-8000T · FW-9000C	FW-4000F	FW-8000T	FW-9000C · FW-9100N · FW-4000F
approx.40L	approx.12months	approx.6months	approx.5months	approx.2.5months
approx.90L	approx.6months	approx.3months	approx.2months	approx.1months
approx.150L	approx.3.5months	approx.1.7months	approx.1.5months	approx.20days
approx.200L	approx.2.5months	approx.1.2months	approx.1months	approx.15days

## ■ Adequate time of cartridge exchange

### <CAUTION>

If the daily usage increase, life time is decreased and cartridge exchange lamp lights on earlier.



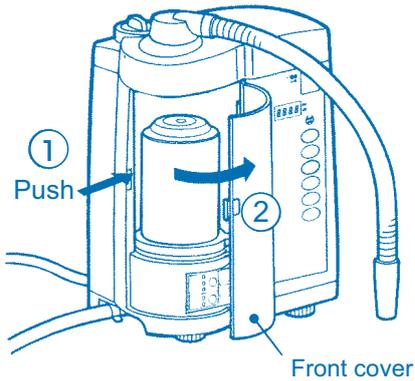
- Lighting on the cartridge lamp means it is approaching the life of cartridge.
- Cartridge lamp keep lighting up after passing the life.
- Exchange the cartridge when the odor is not taken out or water quantity become less as it is considered that it is approaching the life of cartridge even if it is before the lighting up or blinking of cartridge exchange lamp.

※JIS S3201 standard.

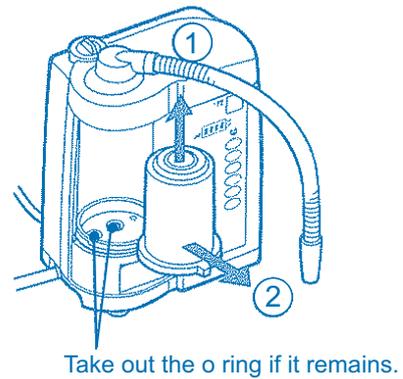
<CAUTION>

- The period of use is significantly different from contained amount of organic substances and turbidity.
- The life of cartridge may decrease with well water.
- Total use of a day is indicated the amount of ionized water and discharged water as it counts flowing quantity through the cartridge.
- Life of cartridge is different by turbidity of law water, concentration of residual chlorine or total trihalomethane.
- Water quantity may decrease regardless of the period of use when turbid water or red rust come into the product by water-service works, etc. Exchange the cartridge in this case as well.
- The water quantity of 「ionized water」 ・ 「purified water」 may decrease in following case.
  - Water temperature is low.(It is difficult to go through the cartridge because of increased viscosity of water.)
  - In case of use in the place which water pressure is low.(Top of the building, etc.)
  - Water quantity may decrease by the time of use as water pressure is always different by the area.

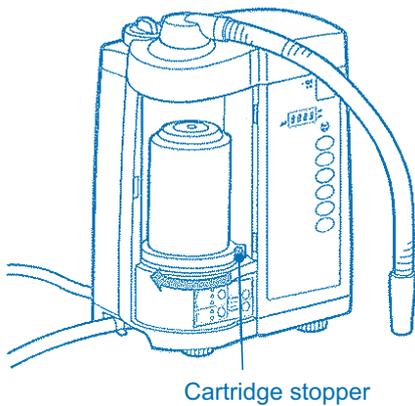
- 1 Close the water cock, power off, open the front cover after no water come from drain hose.



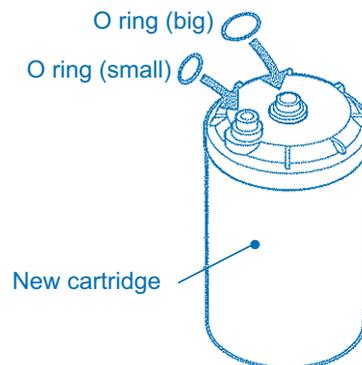
- 3 Pull out the cartridge slowly. (Pay attention to the water coming from the bottom of cartridge.)



- 2 Turn the cartridge stopper to the left and remove it.

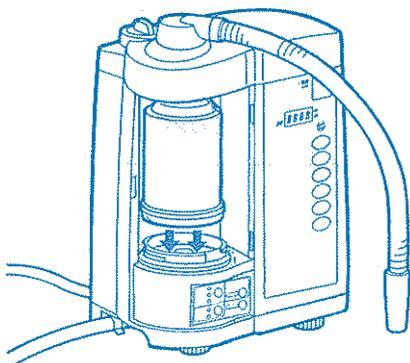


- 4 Attach the O ring of accessories to new cartridge.



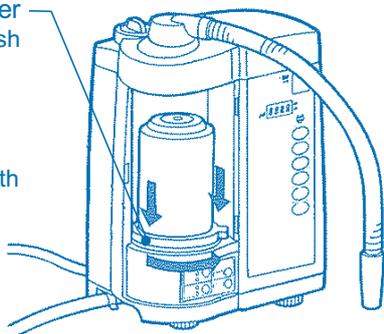
## Exchange of cartridge

- 5 Attach the cartridge to the product.

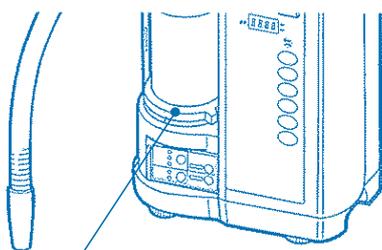


- 6 Turn the cartridge stopper to the right with pushing the direction of arrow until it stops.  
(Finish exchanging)

**Cartridge stopper**  
Make sure to push as innermost is easy to come off the bottom.  
Water leak may cause if use it with coming off the bottom.

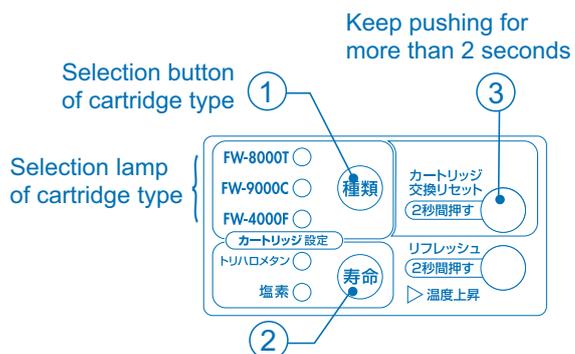


- 7 Keep running water(a few minutes) until the water turn to clear after confirming no water leak is found when it pass the product.  
The black water is the powder of activated carbon.

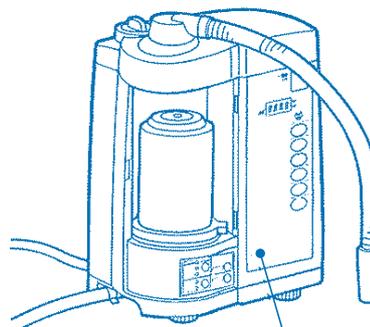


Confirm if no water leak is found.

- 8 Turn the power on  
① Select the type of new cartridge  
② Set the life type  
③ Keep pushing cartridge exchange reset button for more than 2 seconds.  
Cartridge exchange lamp turn off.



- 9 Attach the front cover after confirming the extinction of cartridge exchange lamp.



Cartridge exchange lamp  
Confirm the extinction of lamp.

- Bubbles may be mixed in [ionized water], [purified water] or water quantity may decrease after changing the cartridge.

- The air inside the cartridge is not deflated, it become normal condition after running water for a little while.

- It may hear sound from cartridge.  
A ball(check valve) in the cartridge move by involving the air.

- (1) Switch the lever to [tap water] and switch it to [ionized water • purified water.] at once.
- (2) Repeat (1) some times when the sound is not lost.

	case	occasion and treatment	Reference page
A b o u t d i s p l a y	Power lamp doesn't light on	<ul style="list-style-type: none"> <li>● Check if the power plug isn't come out. ⇒ Insert the power plug firmly.</li> </ul>	21
		<ul style="list-style-type: none"> <li>● Check if the power button is on. ⇒ Push the power button and restart it.</li> </ul>	21
	Digital display isn't operated.	<ul style="list-style-type: none"> <li>● Check if cartridge isn't clogged. ⇒ The period of clogging may be caused by the quality of tap water(turbidity, red rust, etc.) Exchange the cartridge.</li> </ul>	28 } 30
		<ul style="list-style-type: none"> <li>● Check if the water pressure isn't low. ⇒ Wait until the water pressure is recovered.</li> </ul>	—
		<ul style="list-style-type: none"> <li>● Check if the water supply hose isn't bent. ⇒ Correct the bent part.</li> </ul>	—
		<ul style="list-style-type: none"> <li>● Check if the multi branch faucet isn't clogged. ⇒ Remove the garbage from the metal net in the branch faucet.</li> </ul>	27
	Digital display is disappered while creating 「ionized water」 .	<ul style="list-style-type: none"> <li>● Safety system operates and stop creating ionized water when following water keep creating in a row. (water keeps running)                             <ul style="list-style-type: none"> <li>● 「Alkaline ionized water」 ... Approx. 30min</li> <li>● 「Strong alkaline ionized water」 「Acid water」 ... Approx. 10min</li> </ul>                             ⇒ Close the water cock and use it after 30 minutes.                         </li> </ul>	—
		<ul style="list-style-type: none"> <li>● Safety system operates and stop creating ionized water when the temperature in the product rise abnormally. (Temperature rise lamp on setting panel blinks. Water keep running)</li> </ul> <div style="text-align: center;"> </div> <ul style="list-style-type: none"> <li>⇒ Close the water cock and turn the power off. It can be used again after a while.</li> </ul>	—
	Cartridge exchange lamp remain lighting on.	<ul style="list-style-type: none"> <li>● Check if the cartridge exchange reset button is pushed. ⇒ Keep pushing the cartridge exchange reset button for more than 2 seconds when it is exchanged.</li> </ul>	28 } 30
	Cartridge exchange lamp lights on earlier.	<ul style="list-style-type: none"> <li>● Check the daily quantity(Liter) of use refer to the chart of 「usage and life of cartridge」 on page 28. ⇒ It blinks earlier if the daily quantity of use is large.</li> </ul>	28
<ul style="list-style-type: none"> <li>● Check if the life setting of cartridge isn't set as trihalomethane. If trihalomethane is set, cartridge exchange lamp lights on earlier. (Residual chlorine is still removed.) ⇒ Check what life setting is selected.</li> </ul>		28 } 30	
Digital display shows 「-----」	<ul style="list-style-type: none"> <li>● It means that the water is difficult to be electrolyzed. ⇒ Add the calcium preparation of accessory.</li> </ul>	—	
Refresh lamp doesn't disappear.	<ul style="list-style-type: none"> <li>● Turn the power on and push 「refresh button」 for more than 2 seconds while water is running.</li> </ul>	26	

	case	occasion and treatment	Reference page
A b o u t c r e a t e d w a t e r	pH testing liquid doesn't show blue or navy color when test the alkaline ionized water.	<ul style="list-style-type: none"> <li>● It is effected by carbonic acid in the tap water. The water is electrolyzed. Confirm the existing carbonic acid by following methods.</li> <li>⇒ (1) pour the alkaline ionized water of pH9.0 in a cup</li> <li>(2) add a few drops of pH testing liquid into the dedicated cup.</li> <li>(3) pour the alkaline ionized water of (1) to the scale mark of the dedicated cup. The color turns to green or yellow from blue or navy at the moment of adding the alkaline ionized water if carbonic acid is contained.</li> </ul> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>(1) Pour alkaline ionized water into a cup.</p> </div> <div style="text-align: center;">  <p>(2) Pour 2 drops of pH testing liquid into the dedicated cup.</p> </div> <div style="text-align: center;">  <p>(3) Pour alkaline ionized water into the dedicated cup.</p> </div> </div>	24
	The quantity of created water or purified water decrease.	<ul style="list-style-type: none"> <li>● Check if the cartridge is clogged.</li> <li>⇒ The period of clogging is different by the water quality. (turbidity, red rust, etc.) Exchange the cartridge.</li> </ul>	28 } 30
		<ul style="list-style-type: none"> <li>● Water runs worse if calcium get adhered on the electrode.</li> <li>⇒ Clean up.</li> </ul>	26
		<ul style="list-style-type: none"> <li>● Check if the multi branch faucet isn't clogged.</li> <li>⇒ Remove the garbage from the metal net in the branch faucet.</li> </ul>	27
	Bad odor smells.	<ul style="list-style-type: none"> <li>● It means the life of cartridge.</li> <li>⇒ Exchange the cartridge.</li> </ul>	28 } 30
		<ul style="list-style-type: none"> <li>● Check if the pH value of water is high.</li> <li>⇒ Reduce the pH value and use it.</li> </ul>	21 } 23
		<ul style="list-style-type: none"> <li>● Check if the calcium case gets dirty.</li> <li>⇒ Clean up</li> </ul>	25
	White floating substances come out.	<ul style="list-style-type: none"> <li>● It is solid contents effected by calcium.</li> <li>⇒ There is no harm to drink.</li> </ul>	26
	Rusty water(red rust) come out.	<ul style="list-style-type: none"> <li>● Rust of water pipe or turbidity after water-service works comes out. (DO NOT DRINK.)</li> <li>⇒ Switch the lever to 「tap water」 and keep running the water until rusty water doesn't come out.</li> </ul>	—
	Shining floating substances or brownish-red, black sediments can be seen when pour the 「alkaline ionized water」 into a cup.	<ul style="list-style-type: none"> <li>● Constituents which is melted in the water change to hydroxide and come out because of high pH value. (There is no harm to drink)</li> <li>⇒ Reduce the pH value and use it.</li> </ul>	21 } 23

	case	occasion and treatment	Reference page
A f t e r u s i n g c r e a t e d w a t e r	The surface of aluminum kettle, pan turn to black.	<ul style="list-style-type: none"> <li>● After boiling alkaline water, it gets oxidized and become black. (There is no harm to drink) ⇒ Use almite products or except aluminum ware.</li> </ul>	—
	White material adhere in kettle, pan, pot.	<ul style="list-style-type: none"> <li>● The white substances are crystallized by boiling the calcium which is melted in the water. (There is no harm to drink) ⇒ It can be cleaned up by (hot)watered-down vinegar.</li> </ul>	—
	Hot water become cloudy.	<ul style="list-style-type: none"> <li>● The white turbid water are crystallized by boiling the calcium which is melted in the water because of high pH value. (There is no harm to drink) ⇒ Reduce pH value and use it.</li> </ul>	21 } 23
	Rice become yellow after keep the cooked rice with alkaline ionized water warm.	<ul style="list-style-type: none"> <li>● It is caused by the reaction of sugar in the rice and amino acid with heat. (There is no harm.) ⇒ Reduce pH value and use it.</li> </ul>	21 } 23
	Cooked rice with alkaline ionized water become soft.	<ul style="list-style-type: none"> <li>● Softer rice can be cooked because starchiness in rice is soften by alkaline. ⇒ Reduce pH value or use purified water.</li> </ul>	—
	Black material adhere to inside the drain hose.	<ul style="list-style-type: none"> <li>● It is caused by that the floating fungus in the air adhere to. ⇒ There is no harm but clean up with neutral detergent or exchange the drain hose.</li> </ul>	—
O t h e r	Water come out from the bottom of the product.	<ul style="list-style-type: none"> <li>● There is a hole at the bottom to drain for the case water come into the product. The spilled water come out when exchange the cartridge. ⇒ Wipe the spilled water and use it.</li> </ul>	—
	It sounds from the cartridge.	<ul style="list-style-type: none"> <li>● A ball(check valve) in the cartridge move by involving the air. ⇒ (1) Turn the switch lever to 「tap water」 and switch to 「ionized water · purified water」 at once. (2) Try this several times if the sound isn't lost.</li> </ul>	—
	It has clicky sound from the product.	<ul style="list-style-type: none"> <li>● It is the operating sound of electronic components after making automatic cleaning to maintain the performance of the product. It is not abnormal.</li> </ul>	22

- In case the cases cannot be recovered by above treatments, ask for the dealer without repairing by yourself as it may have malfunction.
- If the product is not used for a long time, clean up, dry and store it in the place of less humidity.

## Specification

product number		FW-1000SA		
Rating		AC110V 60Hz 2.6A		
Water feeding system		Water discharge branch faucet		
Water feeding connection		Switch lever		
Constitution		Water purification cartridge (FW-8000T) body built-in		
Power consumption		250W		
Body	Weight	Approx. 5.5Kg		
	Dimension	W250mm x L157mm x H341mm		
max water temperature for use		35°C		
Usable water pressure		Approx. 70~750kPa (0.7~7.5kgf/cm <sup>2</sup> )		
Max creating amount		Approx. 4.3L/min		
Electrolyzed water amount	Water amount of spout	Approx. 2.1L/min	Water pressure 100kPa (1kgf/cm <sup>2</sup> )	
	Water amount of drain outlet	Approx. 0.7L/min		
Continuously usable time		Alkaline ionized water : Approx. 30min    Acid water : Approx. 10min Strong alkaline ionized water : Approx. 10min		
Water purification cartridge	Filtration capacity of residual chlorine		FW-8000T : Approx. 16,000L To reach 0.4mg/L of filtered water concentration, 2mg/L of raw water residual chlorine concentration.	
	Filtration material		FW-8000T : Silver impregnated granular activated carbon, calcium sulfite, Mechanical filter	
	Exchange system		One-touch exchange system	
	Display of life (life setting of [chlorine])		FW-8000T : Approx. 12 months (40L of daily use)	
	Removal performance	Possible	Dissolved organic material (Residual chlorine, red rust, trihalomethane)	
		Impossible	Salt content, metallic ion which is dissolved in water.	
Length of power cord		2.5m		
Safety system		Thermal protector Transformer temperature fuse	110°C operation Meltdown more than 133°C	



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