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Please Follow Them for Your Safety

Instruction of signs

The documents containing following signs are meant to assure your safety. Please read them carefully, and follow the instructions.








Estimated Degree of Risk


 **Warning** If you ignore the instruction with this sign and incorrectly handle the machine, it may cause a fatal accident.






 **Caution** If you ignore the instruction with this sign and incorrectly handle the machine, people may get serious injury.

Suggestion The instruction with this sign illustrates how to avoid the failures.



Explanation of Displaying Signs

Sign	Title	Definition
	General	Unspecified general warning or caution.
	General	Unspecified general nation of prohibition.
	General	Unspecified general instruction of user's procedures.
	Keep Dry	If you use the machine under the wet condition, leaking electricity may cause fire or electric shock. This notification means to avoid the situation.
	Never with Wet Hands	If you use the machine with wet hands, you may get electric shock. This notification means to avoid the situation.
	Unplug	This instruction asks users to unplug the machine.
	Prohibition of Disassembly	If you disassemble the machine, you may get electric shock. This instruction means to avoid the situation.

 Warning

	<p>Following people need to consult with a medical doctor before drinking alkaline ionized water.</p> <ul style="list-style-type: none"> • People have chronic disease or with delicate health condition • People have liver or kidney disorder • Patients currently treated by medical or dental doctors
	<p>Paying attention of followings when you drink alkaline ionized water made by this machine.</p> <ul style="list-style-type: none"> • Never take any medicine with alkaline ionized water. • Gastric achlorhydria patients should not drink alkaline ionized water. • If you realize abnormal physical sensation after you drink alkaline ionized water, or if you do not realize any physical improvements after you continuously drink alkaline ionized water, you should consult with medical doctors.
	<p>People with following conditions need to consult with a medical doctor before using acid ionized water (a.k.a. astringent). •Fragile skin •Allergic</p>
	<p>If you realize abnormal skin sensation after you use acid ionized water, you must stop using acid ionized water and need to consult with a medical doctor.</p>
	<p>If you drop the machine in the water, it may cause the electric shocks. (1) unplug the machine from electric power immediately (2) keep dry the machine (3) and must request repair to the dealer where you purchased the machine.</p>
	<ul style="list-style-type: none"> • You should only use drinkable water Non-drinkable water cause you sick.
	<ul style="list-style-type: none"> • You should use displaying power supply voltage (according to its power plug instruction) Different supply voltage may cause fire or electric shocks.
	<ul style="list-style-type: none"> • Do not damage the power code. Should not cut, tweak, bend, or bundle the power code. Also, should not put heavy stuff on the code or put power codes in a narrow space. Damaging power code may cause fire or electric shock.
	<ul style="list-style-type: none"> • You should not use the machine when the power code or the power plug is damaged, or when you do not plug correctly. Those may cause electric shock, circuit short, or fire.
	<ul style="list-style-type: none"> • Never wash the machine. Keep dry the machine. Do not use the machine in the place with a lot of moisture, such as bathroom. Water causes electric leak and electric shock.
	<ul style="list-style-type: none"> • Do not unplug with wet hands. You should unplug the machine whenever you clean the machine and touch the inside of the machine. Those may cause electric shock.
	<ul style="list-style-type: none"> • Never repair, disassemble or reconstruct the machine. Those may cause fire and electric shock.

 Caution

	<p>Never drink following water because those may make you sick.</p> <ul style="list-style-type: none"> • strong alkaline ionized water • any water from exhaust pipe • acid alkaline ionized water, strong acid ionized water • any water when you are cleaning the machine • water with pH test liquid
	<p>Never drink pH test liquid. Do not drop pH test liquid in eyes. May cause you sick If you drink them or drop them in eyes, you should follow the following procedures and go to see a doctor immediately.</p> <ul style="list-style-type: none"> • If you drop pH test liquid in eyes, you should wash eyes with clean water. • If you drink the pH test liquid, you should drink a plenty of water. • Close a cap of test liquid tight and keep away from kids. • Never close to fire. (It can be ignited.)
	<ul style="list-style-type: none"> • Consume alkaline ionized water or filtered water quickly. If you would like to store, you should keep water in a covered container and keep in refrigerator. Consume in 2 days.
	<ul style="list-style-type: none"> • Only use designated calcium glycerophosphate in the calcium case. Never put anything else; otherwise, can not guarantee the safety.
	<ul style="list-style-type: none"> • Never consume any water from the machine whenever LC display shows "preparing" sign. Those water may cause you sick.
	<ul style="list-style-type: none"> • Never use the containers which are not durable against acid or alkaline water, such as an aluminum container. Those containers may be discolored or eroded.
	<ul style="list-style-type: none"> • Never use water above 95 degree Fahrenheit or (35 degree Celsius) in order not to break down the machine or not to burn yourself.
	<ul style="list-style-type: none"> • Never use water from the machine for aquarium. Fish and other creatures may die because water environment changes.
	<ul style="list-style-type: none"> • Never block the faucet holes, never extend faucet hoses or never connect undesignated tools to any faucet holes. Those may cause water leakages and damaging the machine.
	<ul style="list-style-type: none"> • Never attach anything (e.g. pushpins, trash...) to the power plug. Those may cause electric shocks, circuit short or fire.
	<ul style="list-style-type: none"> • Never nail power codes on walls, for example, with staples. Power codes may be damaged and cause electric shocks or fire.
	<ul style="list-style-type: none"> • Avoid too many loads on one electric outlet. May heat up and cause fire.
	<ul style="list-style-type: none"> • For the beginner, you first need to drink Alkaline 1 (around pH 8.5) water. After you drink several cups and get used to drink alkaline water, you may increase pH level up to your physical condition.
	<ul style="list-style-type: none"> • Never directly drink alkaline water exceeding pH 10. You must consult with a medical doctor before drinking water exceeding pH10.

 **Caution**




- You should conduct pH test periodically. Water quality or volume of flow may change the pH level of processed water.
- If you did not use the machine for more than a day, before you consume, you must discard initial filtered water coming from the machine for a while (at least 2 minutes) after "preparing" sign on LC display disappears.
- You need to wash the calcium case periodically. Avoid generating mold for your health.
- If you do not use the machine for more than a month, you should unplug from power. Dielectric degradation may cause electric shock, electric leakage or fire.
- When you would like to unplug, you must hold the plug but not the power code. Damaging power code may cause electric shocks, circuit short or fire.
- Always request installing and relocating the machine for the dealer. If you do that by yourself without right equipments, insufficient installing may cause fire, electric leakage of water leakage.
- Never apply a strong force or impacts to pipes and their connectors. Loosing pipe connection may cause water leakages.
- If the machine works incorrectly or does not response, please immediately unplug the machine from power in order to avoid any accidents. Then, consult with the dealer. Avoid electric shocks, electric leakage and circuit short, which may cause fire.
- If you would like to hang the machine on the wall, request the installing for the dealer. If the machine falls due to the improper installing, it may cause accidents.

- Use 3 Different Types of Water due to Your Usages
Up to your usages, you can choose from 3 types of different waters; "Alkaline Ionized Water"; "Acid Ionized Water" and "Filtered Water".
- Easily Viewable LC Display
 - You can confirm the condition of water from the machine easily on LC display.
 - If you push the "change-over" button, ORP (Oxidation Reduction Potential) and the life duration of cartridge are shown on the LC display.
- One-Touch pH Choice Button
You can choose the pH level of water by the button easily.
- Prevention Function of Accidental Ingestion
When the machine makes non-drinkable water such as "strong alkaline ionized water" or "acid ionized water", beep sounds will notify you that the water is non-drinkable.
- Function to Notify when Cartridge should Change
LC display and lump will notify you when you should change the cartridge.

Application of Water by Types

- Strong Alkaline Ionized Water (WARNING) Never drink.
Good for removing harshness of food, boiling vegetables, and stews
- Alkaline Ionized Water
When you start drinking, first you drink the water around the neutral pH (recommend pH 8.5). Then, after drinking several cups and get used to them, please increase the pH gradually.
- Acid Ionized Water (WARNING) Not for drink.
Good for washing faces and skin maintenance.
- Strong Acid Ionized Water (WARNING) Never drink.
When you make strong alkaline ionized water, strong acid ionized water will come out from a drainage pipe. Please use them for removing tea stains of cups or removing odor after cooking fish.

 **Caution** Never drink strong alkaline ionized water, acid ionized water and strong acid ionized water. They may harm your health.

- Filtered Water
Removing chlorine from tap water. (Have not applied electrolysis)

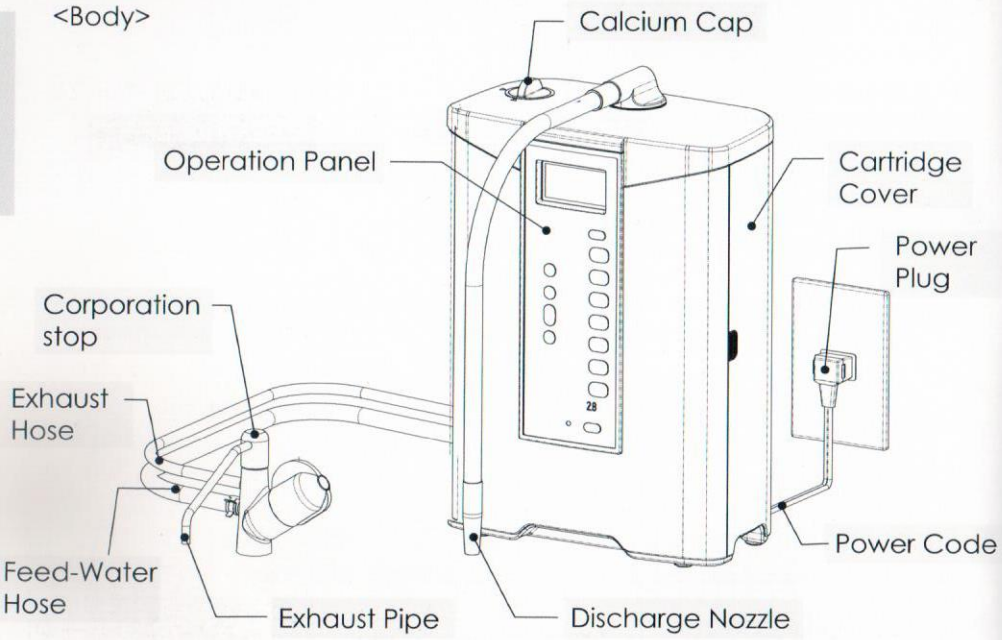
- What is pH of water?
pH reflects the cologarithm of the activity of dissolved hydrogen ions (H+) in the water, and a measure of the acidity or basicity of a water.

Alkaline
Neutral
Acid

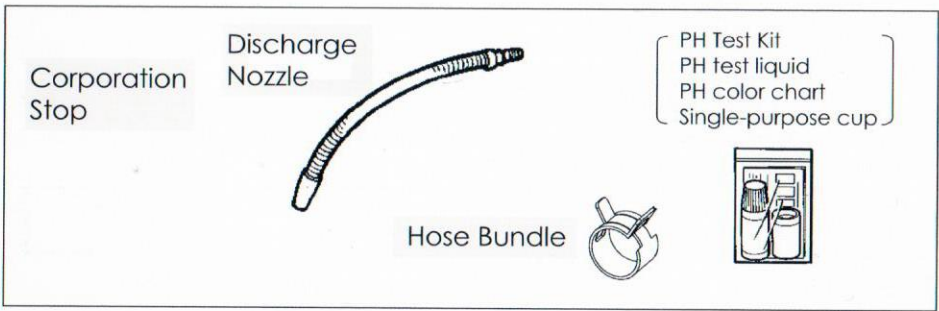
(Big figure) ← (7) → (small figure)
- What is ORP (Oxidation Reduction Potential) of water?
 - ORP is a measurement of the potential electric energy, which can oxidize or reduce other substances.
 - If ORP has big positive number, the water have strong ability to oxidize other substances.
 - If ORP has small negative number, the water have strong ability to reduce other substances.

Name of Parts

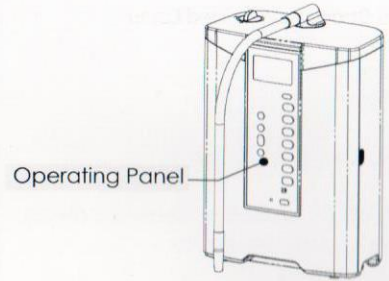
<Body>



<Applications>

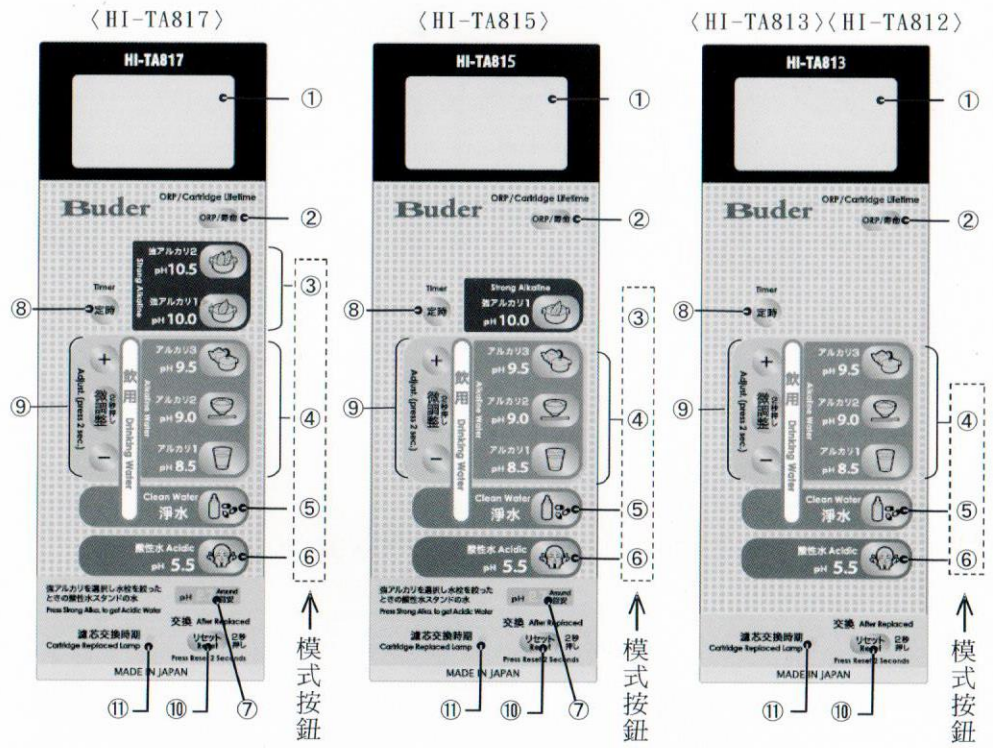


<Operating Panel>



About the LC Display
 LC Display shows the pH level of ionized water (setting value), ORP value and the life duration of cartridge.
 (The values are all indications.)
 ※pH and ORP value is adjusting by special testing water. The real water come out from the machine may have unstable PH and ORP due to the different quality of water and volume of inflows. Also, displaying life duration of cartridge may include some errors.

Panel Description for each model

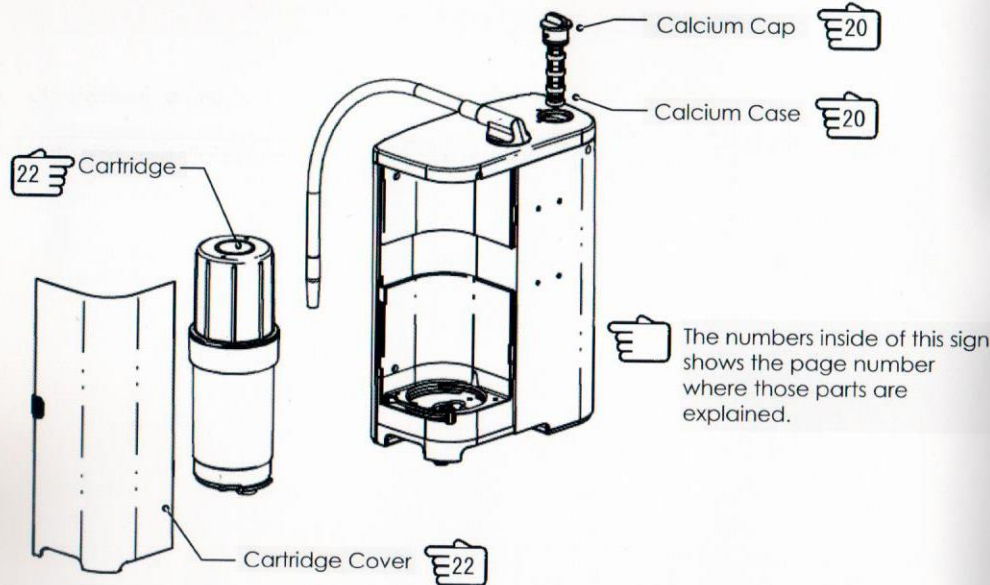


No.	Name	Pages	No.	Name	Pages
①	LC Display	14	⑦	Strong Acid Ionized Lamp ^{※1}	15
②	Change-Over Button	17	⑧	Timer Button	17
③	Strong Alkaline water Button ^{※1}	15	⑨	Fine Adjustment Button	17
④	Alkaline water Button	15	⑩	Cartridge Replacement Reset Button	22
⑤	Filtered Water Button(clean water)	15	⑪	Cartridge Replacement Lamp	21
⑥	Acid water Button	15			

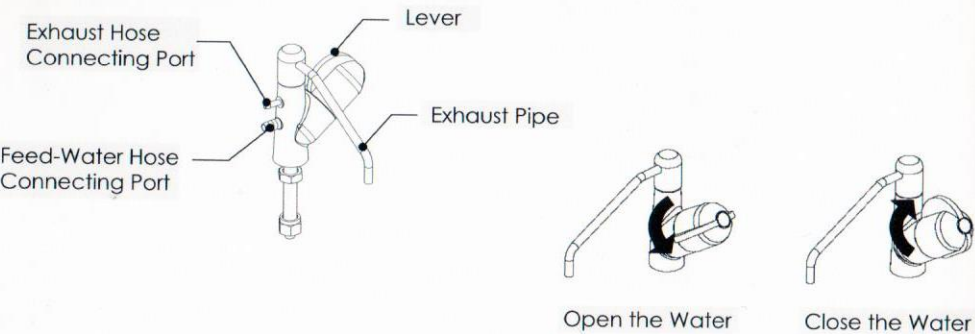
※ 813.812 does not have Strong Alkaline Ionized Button and Strong Acid Ionized Lamp

Name of Parts

Introduction



<Corporation Stop>



- Exhaust Hose Connecting Port.....Connect to the exhaust hose of the body part
- Feed-Water Hose Connecting Port.....Connecting to the feed-water hose of the body part
- Lever.....Adjust the volume of water flow/shut the water
- Exhaust Pipe.....Water from body part will finally come from here

Request

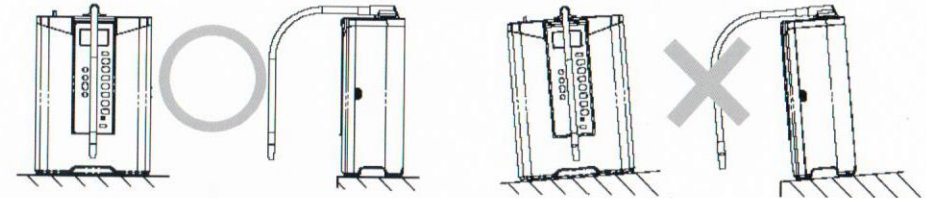
- Please request the corporation stop installation for the dealer where you purchased the machine.

Installation of the Body Part



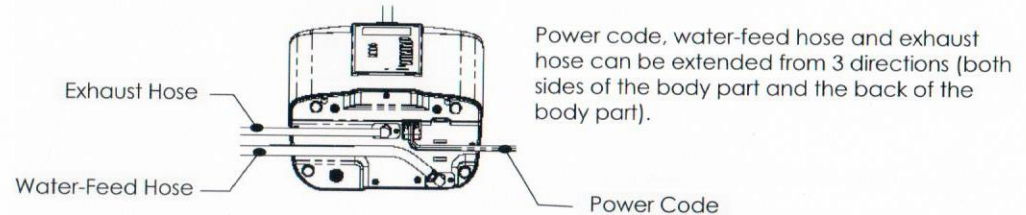
Caution

- Please set the body part on the stable horizontal surface. Never set the body part on an unstable place or a slope. (To avoid falling down or harm any persons.)
 - Do not put anything in front of the body part in order not to obstacle the operation.
- Never set the machine at the following places; (It may cause accidents or breaking down.)
- Close to fire. Or, the temperature can reach higher than 140 degree Fahrenheit (60 degree Celsius).
 - Locations which receive direct sun light.
 - Locations which have high moisture (e.g. bathroom) or a lot of dust.
 - Locations where the machine can get wet (e.g. inside of a sink)



Set the body part on the stable horizontal

Never set the body part on a slope.



Power code, water-feed hose and exhaust hose can be extended from 3 directions (both sides of the body part and the back of the body part).

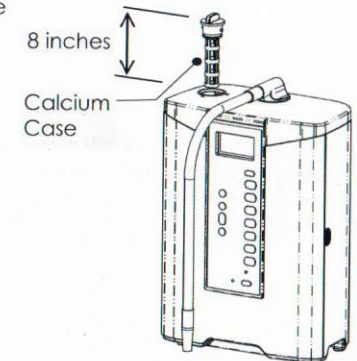
(Attention)

- Never hold power code, exhaust hose and water-feed hose by the weight of the body part.

You must request the dealer to install the machine when you would like to hang the body part.

Please open up the above space at least 8 inches (20cm) in order to easily access to the calcium case.

When you would like to replace the cartridge, please detach the body part from the wall and replace it.

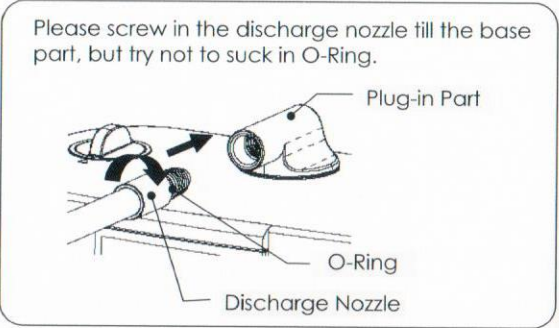
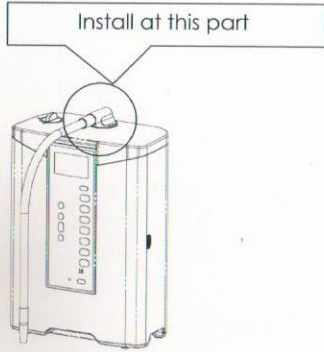


Installing

Installing the Discharge Nozzle

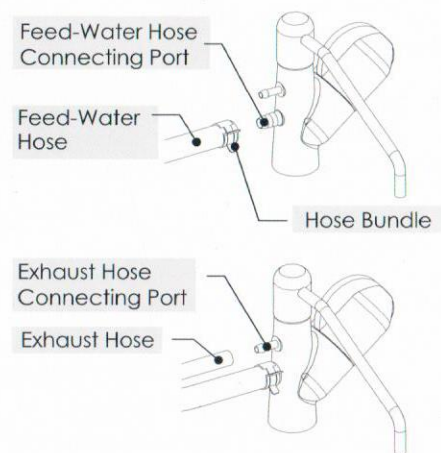
Request

- Never connect any other hoses to the exit of discharge nozzle. (It may cause water leakage or breaking down.)
- Plug-in part is made from plastic, so please do not insert the nozzle by strong force. (It may cause water leakage or breaking down.)
- If you would like to move the discharge nozzle after you installed, please hold the base part.



Connecting Feed-Water Hose & Exhaust Hose

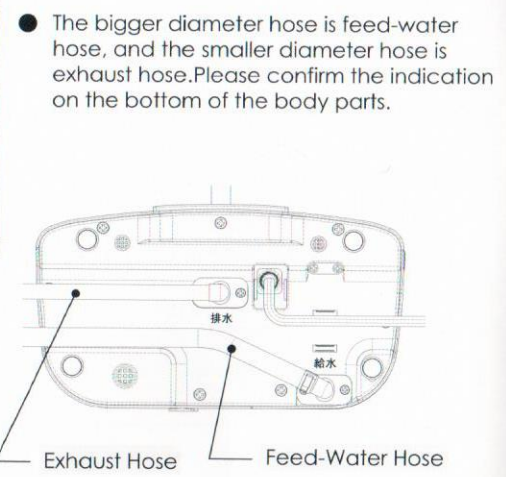
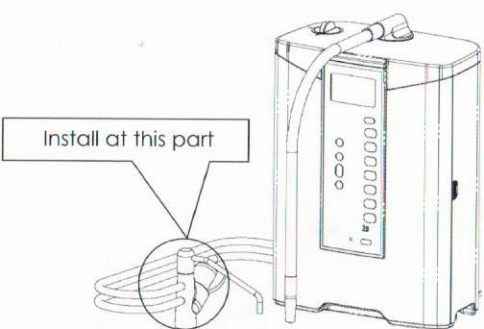
- 1 Insert the hose bundle to the feed-water hose first. Then, connect the hose to the feed-water hose connecting port (bottom port). Please insert completely fill the base part of the port.
- 2 Connect the exhaust hose to the exhaust hose connecting port (upper port). Please insert completely fill the base part of the port.



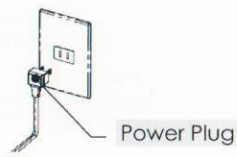
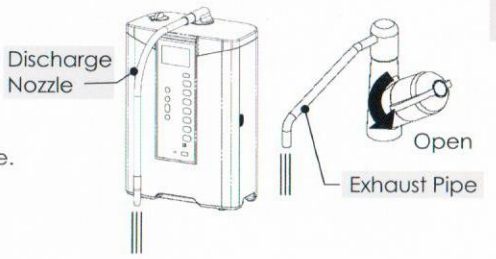
Connecting Feed-Water Hose & Exhaust Hose

Caution

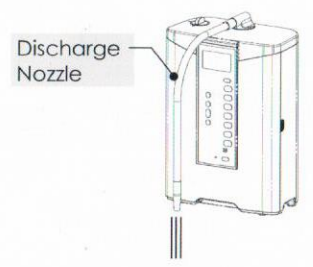
- Never bend or twist feed-water hose and exhaust hose when you connect them. (It may cause water leakage.)
- Never extend hoses.



Please Follow the Procedure When You First Use the Machine

- 1 Plug the power plug. 
- 2 Open the lever of the corporation stop. It should be the filtering mode, and let water run from the discharge nozzle and the exhaust pipe for a while. Then, water only comes from discharge nozzle. 

- 3 Please stay at the filtering mode and let water run for about 2 minutes.
 - This process can get rid of air both in the cartridge and in the body part.
 - No water comes from exhaust pipe.
 - Please check if there are any water leakages from any connections.



Installing

How to Use

Before Use

Please use water up to your usages.

● Alkaline Ionized Water

Push either "Alkaline Ionized" or "Strong Alkaline Ionized" button.
Alkaline ionized water will come out from exhaust pipe.

- Acid ionized water will come from the exhaust pipe of the corporation stop.

● Acid Ionized Water

Push the "Acid Ionized" button and acid ionized water will come out from the discharge nozzle.

- You can not use the water from the exhaust pipe of the corporation stop.

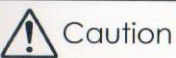
● Filtered Water (No electrolysis)

Push the "filtered water" button, and use the filtered water from the discharge nozzle.

- No water comes from the exhaust pipe while you stay on the filtered water mode.

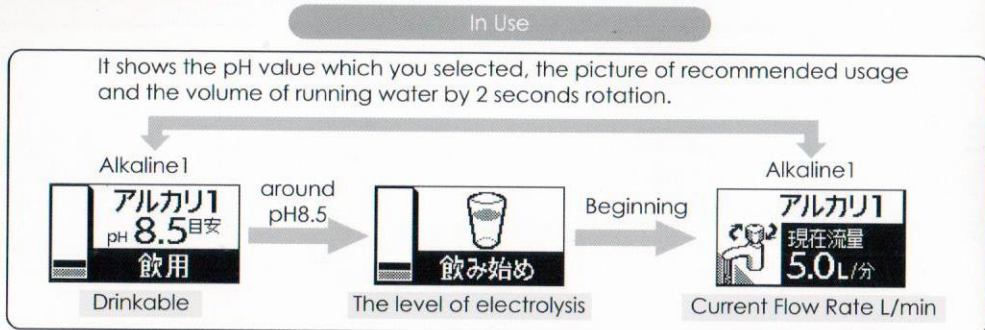
● Strong Acid Ionized Water

Please select "Strong Alkaline Ionized Water" button and decrease the volume of water run. Then, strong acid ionized lump will flash. At that time, strong acid ionized water come out from the exhaust pipe of the corporation stop.



Caution Do not drink Strong Alkaline Ionized Water, Acid Ionized Water and Strong Acid Ionized Water. Otherwise, you may get sick.

About LC Display



After you close the lever of corporation stop



About the level of electrolysis

When the machine is electrolyzing, this level indicates the strength of electrolysis (electric power). So, you can not see that when you are using filtered water mode or do not use the machine.

※The level of electrolysis changes up to the mode which you select.

- Back light will turn off in about one minute after you close the lever of corporation stop in order to save power. Furthermore, characters will disappear in about 9 minutes. When you push the button again or start running water, back light of LC display will be automatically turned on.

Use Alkaline Ionized Water, Acid Ionized Water and Filtered Water

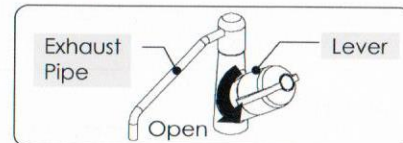
 Caution	Do not drink following water. You may get sick.
	<ul style="list-style-type: none"> • Strong Alkaline Ionized Water (pH 10 or above) • Acid Ionized Water • Water with pH test liquid • Water from exhaust pipe • Any Water come out from the machine when you are cleaning
	Never consume water while LC display shows "preparing". Machine discards old water inside while preparing.

(Request)

- Water could be cloudy after the water-supply works. If so, you should discard water from other water outlets until water totally becomes clear before you use water for the machine. Otherwise, the cartridge of the machine can get clogged.
- Do not run water in the machine without plugging to the power. In this case, the machine can not track the amount of flowing water, so it can not correctly judge when you should replace the cartridge.

- 1 Press the mode button, which you would like to use.
 - You hear the short beep sound and LC display will light up.

- 2 Open the lever at the corporation stop.
 - Until the machine completely gets rid of the old water, LC display shows "preparing".



- 3 Use
 - After "preparing" sign disappear and you hear short beep sound, you can use water.
 - ※ However, you will hear warning buzzer continuously if you choose strong alkaline ionized water or acid ionized water. You should not drink those types of water.



LC Display

Change-Over Button

As you push the button once, it changes from OPR value to Life duration of the cartridge.
If you use the filtered water mode, it won't show OPR value.

Mode Button

Please select a button which you would like to use.
The button which you selected will light up.

※ 815 does not have "PH10.5" button.

※ 813 812 does not have "PH10.5" and "PH10.0"

Strong Acid Ionized Water Lump

When you use the strong alkaline ionized water mode, and you decrease the water amount by the lever of corporation stop, this strong acid ionized water lump will flush. Then, strong acid ionized water (very low level of pH) will come out from the exhaust pipe at the corporation stop. Please use strong acid ionized water for removing tea stain of cups or for deodorizing the dishes or kitchen stuff after cooking fish.

※ This illustration is HI-TA817

※ PH value of HI-TA817 is around PH2.7 and of HI-TA815 is PH3.0.

Use Alkaline Ionized Water, Acid Ionized Water and Filtered Water

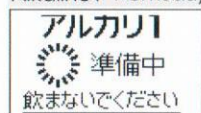
- 4 After using, close the lever at the corporation stop.
- When you use strong alkaline ionized water or acid ionized water, in order to avoid drinking those non-drinkable water, the machine will automatically change to the drinkable water mode which you last used.
 - Save Energy: After closing the water, back light of LC display will automatically turn off in about 1 minute and all lamps and LC display will turn off in 9 minutes.



Close

- Please use water after "preparing" sign disappear on LC display While the machine is getting rid of old water in the body parts, LC display shows the "preparing" sign (Length of "preparing" period differs up to the volume of running water.)

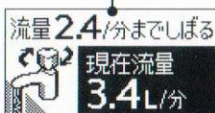
Alkaline 1 - Not Ready



Do not Drink

- If LC display shows "decrease the volume of running water" While you use "strong alkaline ionized water" or "acid ionized water", sometime the LC display shows "decrease the volume of running water" In this case the machine may not be able to make ionized water at the level of pH you requested Please decrease the water fluid volume as closing the lever at the corporation stop.

Down the Flow to 2.4L / min



current Flow Rate 3.4L/min

- About the beep sound when you strong alkaline ionized water or acid ionized water The machine makes beep sound continuously when you select "strong alkaline ionized water" or "acid ionized water" in order to avoid drinking non-drinkable water.

- 1 Completely close the lever at the corporation stop, and push the "acid ionized water" button for about 3 seconds till you hear the short beep sound. Set Alarm will be shown on LC display
- 2 As you push the "acid ionized water" button, "ON" and "OFF" will be switched. If you do not want to hear the beep sound, choose "OFF". If you need beep sound, choose "ON".

Set Alarm

ブザー設定

ON OFF

ON is selected.

- 3 Please leave the machine for about 5 seconds after you change the mode. Then, you will see the message which says "Set Alarm confirmed" for about 3 seconds. Finally, LC shows the original display.

Set Alarm confirmed

ブザー設定 確定しました

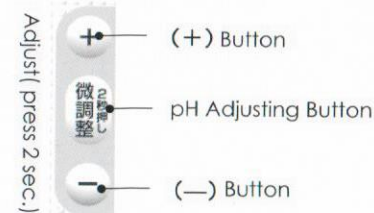
ON OFF

Although, you set the Alarm setting turned off, you will hear the beep sound when you first run water after you clean the electrodes and when machine detects the abnormality.

Adjusting pH Value

In order to move pH value of processed water to "guided level of pH", you can adjust pH level manually by the adjusting button. (You can not adjust pH when you make strong alkaline ionized water or acid ionized water.)

- 1 Close the lever at the corporation stop. Please hold down a "pH Adjusting Button" for over 2 seconds. You will hear the beep sound and LC display will change to the pH setting mode.
- 2 You can adjust the pH level as you push " (+)" or " (-)" button. When you would like to increase the pH level, push " (+)" button. When you would like to decrease the pH level, push " (-)" button.



- 3 After you select the adjusting level of pH, you either push and hold down the pH adjusting button for 2 seconds or leave it for 5 seconds. Then, you will hear the beep sound and the pH level will be determined.

Select Fine Adjustment



This level is selected

After LC display shows the message that say "Adjustment confirmed" for 3 seconds, and then it will go back to the original display.

Fine Adjustment Confirmed



Checking the ORP Value

When you are making alkaline ionized water or acid ionized water, you can check the ORP value (rough indication) on the LC display, as you push "change-over button".

- 1 Please push the Change-Over Button once when the machine process ionized water. Then, ORP value will be shown on LC display.
- Even though you push the change-over button, you use filtered water mode or you stop running water, LC display will not show ORP value.



Buder

Change-Over Button

- 2 In order to get back to the original display, either you leave ORP value mode for more than 5 seconds or push the change-over button twice. (If you push the button just once, LC display will show the life duration of the cartridge.)

Clean Water

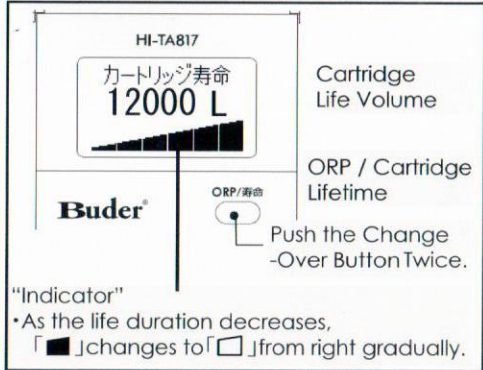


ORP Value is not shown when you use filtered water mode.

Checking the Life Duration of the Cartridge

The machine records the total water flow to the cartridge, and shows the life duration of the cartridge (remaining water quantity till the maximum total water volume for a cartridge) on LC display. Please use that indication for the timing of replacement.

- Hit the Change-Over Button twice. Life duration of cartridge will be shown on the LC display.
 - The life duration will be shown by Liter(L)
 - When the life duration become less than "600L", LC display suggests "please prepare for cartridge replacement" You need to prepare a new cartridge for replacement.
 - When the life duration becomes "0 L", LC display shows "Please replace cartridge". Please replace to a new cartridge.

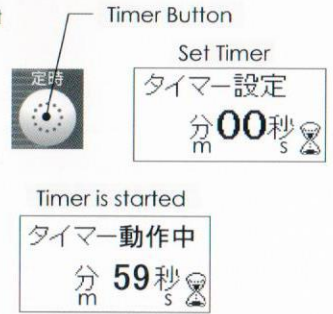


- In order to go back to the original display, either you leave that for more than 5 seconds or hit the change-over button once.

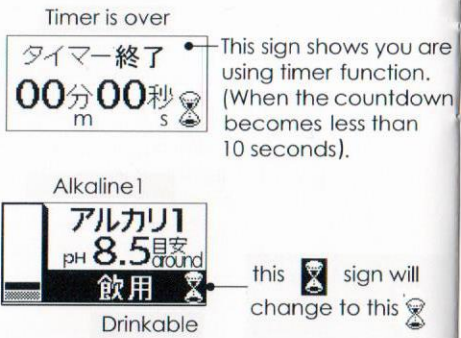
Timer Function

The machine will beep at the time you set. It is convenient to notify the timing when you are cooking.

- Close the lever at the corporation stop and push the "timer button" and set the time.
 - LC display will change to timer setting mode. As you push the timer button once, you can add 1 minute each time. If you hold down the button, time will increase quickly.
 - You can set the timer from minimum 1 minute to maximum 60 minutes.



- After you set the timer (about 3 seconds), you will hear short beep sounds 3 times and count down starts.
- Countdown becomes to zero, you can hear the beep sounds continuously for about 10 seconds.
 - If you want to stop the beep sounds, please push the timer button.
 - You can use the ionizer machine even you are using timer function. (LC display shows like the right one).
 - Timer setting will be canceled when
 - You run the water into the machine while you are setting timer.
 - When you push the timer button while countdown.



- ※ You can not set the timer when water is running.

Measure the pH Value

Caution

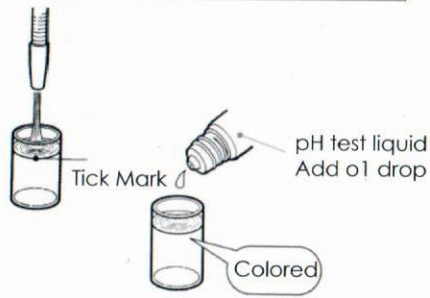
Never drink the water with pH test liquid. Never drop in eyes. (Please mind kids especially.) They may cause sickness.

- If you drink them, drink a lot of water and consult with a doctor.
- If you drop them in eyes, please wash out them with clean water and consult with a doctor.
- Please close the cap tight and store in dark cold place where kids can not reach.

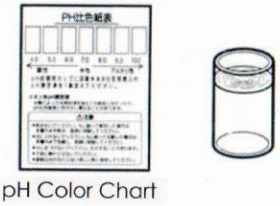
pH test liquid contains alcohol, so please stay away from fire.

Please measure pH value periodically. pH may change due to the water quality and volume.

- Fill the single-purpose cup with processed water (alkaline ionized water or acid ionized water) till at the tick mark. In order to measure the stable pH value, please use water 10 seconds after the "preparing" sign on LC display disappeared.
- Please add one drop of pH test liquid in the water cup. Then, please gently shake the cup.



- Compare the colored water with the pH color chart. The value under the same color of the chart is the pH value of the water.



- Due to the water quality, sometimes pH value of alkaline ionized water does not go up as you expect In that case, please follow these procedures;
 - Adjust pH as push the "+" button. (see page 17)
 - Add more Calcium Glycerophosphate in the calcium case. (see page 20)
- Please follow those procedures if pH value is too high.
 - Adjust pH as push the "-" button. (see page 17)
 - Please add filtered water with the processed water.

Requests When You Use

- When you use the machine in the region where water is hard※, please run the acid ionized water for about 1 minute everyday before you use the machine. (Because crystallized calcium accumulate at the discharge nozzle and hoses, which slows the water flow in the machine.) Hard water region※ : Soap water can not easily lather when agitating. Or, white substance (calcium) accumulates on pots or kettle.

Caution

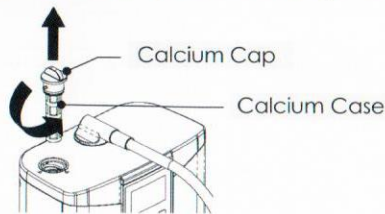
- Never use salt water (e.g. sea water) or water from well near from sea. (Cause of trouble)
- Never hold the discharge nozzle or the cartridge to move the body part. (Cause of damage)

How to Use

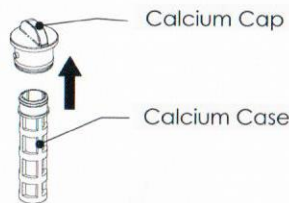
Adding Calcium (When pH value does not go up)

- Calcium is just used for propelling electrolysis process of water when pH level can not go up.
※ It is not mean to include calcium directly in the processed water.
- Calcium Glycerophosphate sells separately. Please contact to the dealer when you want to buy.

- 1** Close the lever at the corporation stop and stop the water. Then open the calcium case and pull out it as turning the calcium cap counterclockwise.

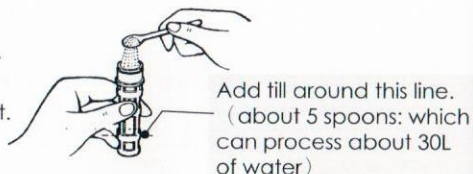


- 2** Remove the calcium cap from the calcium case.
• If cases are filthy or if the calcium remains in the cap or in the case, please clean up them.



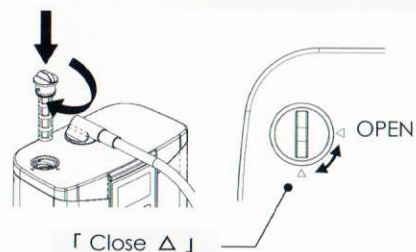
- 3** Add calcium to the calcium case by a spoon. Then, please close the calcium cap.

- Never add calcium directly in the body part. (May cause damage)



- 4** Please insert the calcium case into the body part of the machine. Completely turn the calcium cap clockwise.

- If you do not insert completely, water may leak. Calcium cap should be turned till the sign of 「Close Δ」. Please close completely.



- Use designated calcium only.



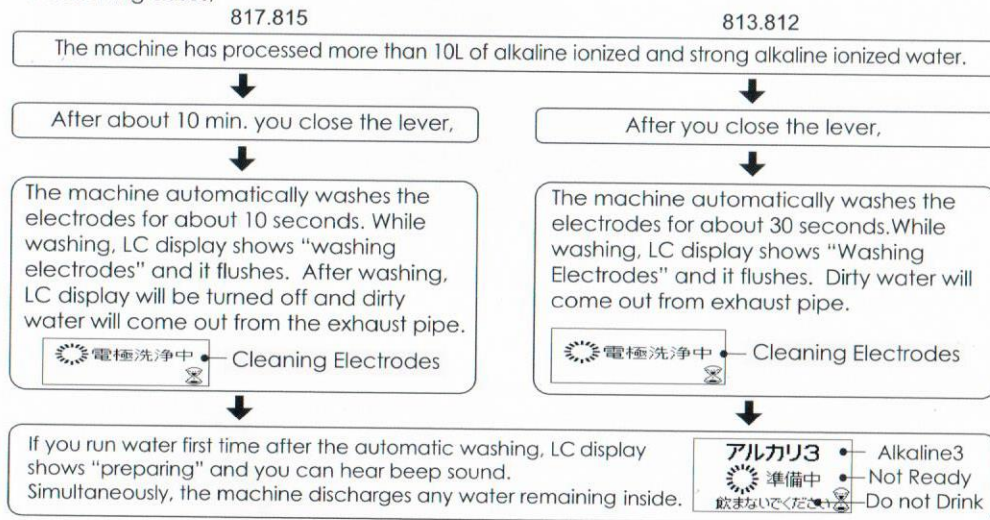
- Please wash the calcium case and the calcium cap at least once a week. Also, please wash inside of the calcium case if it is filthy.



- If you do not use the machine for a long time (more than a week), please remove the remainder of calcium in the calcium case.
- Calcium resolves to the water differently up to the water quality, water temperature and using conditions.

Automatic Washing the Electrodes

- In order to maintain the ionized process, the machine will automatically wash the electrodes in following cases;



- Never use any water from the machine while washing or soon after washing.
- Do not run the water while washing. When you mistakenly run the water while washing, please discard any water until "preparing" sign on the LC display disappear.

Performance of Cartridge and Timing to Replace

- Filtering Performance of Cartridge

Filtering Material	Removable Substances
Non-Woven Fabric	Coarse substances
Granular Activated Carbon	Chlorine Odor、Mold Odor、Trihalomethane、
Ion Exchange Fiber	Dissolved Lead
Hollow-Fiber Membrane	Micro-particles (less than 0.1 micro meter) e.g. red rust, bacteria

- ※ It is not possible to change to soft water from hard water.

- Life duration of a cartridge (30 liter per day and focusing on residual chlorine)

- Days of Use : About 12 months Volume of Water : About 12,000 liter

- ※ Volume of water totaled the water from both exhaust pipe and discharge nozzle;

- Replacement Indication

Notify the timing to replace the cartridge through the LC display and cartridge replacement lamp.

	Displayed Life Duration of Cartridge		
	More than 600 litter	600 litter or less	Zero litter
LC Display	Life volume カートリッジ寿命 11800L	Ready to change カートリッジ交換の 準備をしてください 580 L	Please change cartridge カートリッジを 交換してください
Cartridge Replacement Lamp	No	Flash ※1	Light Up ※2

- ※ 1 : When you run the water or one minute after you stop the water, it flashes for 1 minute. Please prepare for the cartridge replacement
- ※ 2 : Always light-up. Please replace the cartridge.

Replacing the Cartridge

Attention >

Following cases may shorten the life of cartridge;

- Water supply system is dirty. (e.g. old condominium)
- Pipe lines are aging. (e.g. old house)
- Temporal water cloud by water supply works.
- New water system without sufficient cleaning.
- Using water from well or from small-scale water supply system.

- Following cases may reduce the amount of water discharging.
 - Temperature is low (difficult to run water through cartridge)
 - Water pressure is extremely low (e.g. apartment in high floor)
 - Water pressure is low because of the water supply system
 - No-water period (e.g. during water supply works)

Close the lever at the corporation stop and stop the water. Then push the cartridge cover (①), and open it. (②)

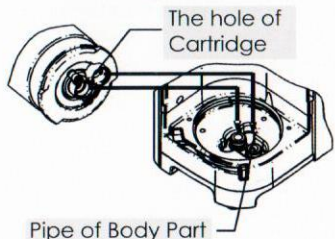
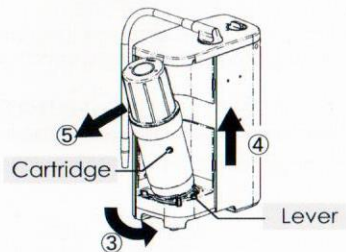
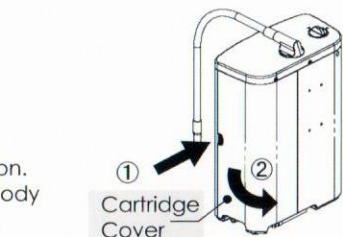
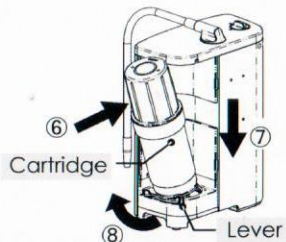
Turn the lever counterclockwise. (③) Hold up the cartridge (④), and pull aslant out it. (⑤) Water come out from the cartridge, so please pay attention. (This water may come out from the bottom of the body part, but that is not a water leakage.)

(Request)

Never lie down or turn bottom-up the body part after removing cartridge. (It may cause breaking down)

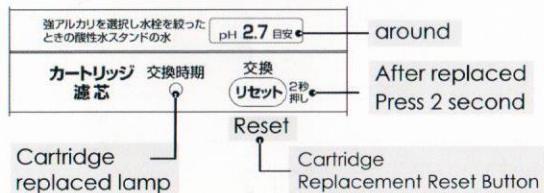
Attach a new cartridge.

- Please match the pipe of body part and the hole of cartridge.
- Return the lever at the original position. Otherwise, water will leak.



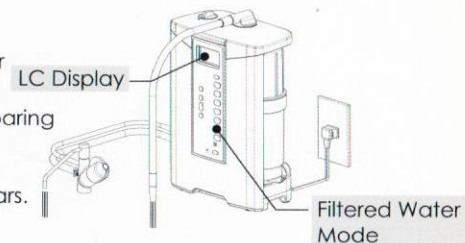
Hold down the "cartridge replacement reset button" more than 2 seconds. You can hear beep sound and the "cartridge replaced lamp" will be turned off. LC display then shows as this.

- Press strong Alkaline button to get Acidic water



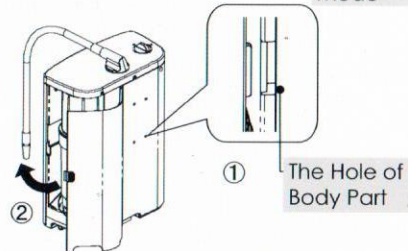
5 Set to the filtered water mode and open the lever of the corporation stop. Let run water till the water becomes clear (2 to 3 minutes).

- When you run the water, LC display shows "preparing" sign and it start flashing.
- Please keep running water till water becomes completely clear even though the sign disappears.
- Please check if water does not leak from the attaching part of the cartridge or not.



6 Close the lever of corporation stop, and finally close the cartridge cover.

- Please insert the tip of cartridge cover into the hole of the body part.



Caution

Never use VOCs, such as alcohol, benzene, or paint thinner, for cleaning any parts and body of the machine. (It may cause cracks, deformation and discoloration)

If body and corporation stop are filthy, please blot with soft clothes. You can dip the clothes in diluted kitchen detergent and please squeeze out water from the clothes before you blot.

If You See Error Messages

This machine has a function to notify you following conditions through beep sounds and LC display.

LC Display	Beep	Possible Problems and Problem Solving
E-1 取扱説明書をお読みください Please read manual	Beep sounds continue	<ul style="list-style-type: none"> ● When the temperature abnormally rises inside of the machine, protectors start working and stop processing ionized water. (but water continues running out) ⇒ Close the lever and wait for a while. Then you can use. • Display stays for about 10 seconds, and it will change to filtered water mode. You can use filtered water.
E-2 取扱説明書をお読みください Please read manual	Beep sounds continue	<ul style="list-style-type: none"> ● Water conducts too much electricity. ⇒ Please use filtered water mode for a while and run the water. Then, try to use ionizer again. If the problem persists, please consult with the dealer. • Display stays for about 10 seconds and it will change to filtered water mode. You can use filtered water.
E-3 取扱説明書をお読みください Please read manual	Beep sounds continue	<ul style="list-style-type: none"> ● Water can not conduct enough electricity. ⇒ Please add calcium (sells separately) in the calcium case. If the problem persists, please consult with the dealer. • Display stays for about 10 seconds and it will change to filtered water mode. You can use filtered water.
E-4 取扱説明書をお読みください Please read manual	Beep sounds continue	<ul style="list-style-type: none"> ● If the machine continuously processes "ionized water" for certain time, the timer inside automatically stop the processing. <ul style="list-style-type: none"> • Alkaline Ionized Water 1・2・3—About 30 Min. • Strong Alkaline or Acid Water—About 10 Min. ⇒ Please wait making ionized water for 30 minutes. You can still make filtered water, though. • Display stays for about 10 seconds and it will change to filtered water mode. You can use filtered water.

If You Suspect Failures

	Cases	Possible Problems and Problem Solving	See Page
LC Display	LC display does not show anything or LC display suddenly turned off	<ul style="list-style-type: none"> ● Is the power plug connect correctly? ⇒ Please plug to the power correctly. ● LC display automatically turns off when you do not use the machine in order to save energy. ⇒ It is not a failure. ※ After close the water and do not touch the operation panel, back light of LC display turns off in 1 minute, and LC display will turn off in another 9 minutes. 	13 ~ 14
	Cartridge replacement lamp (red light) stays turning on.	<ul style="list-style-type: none"> ● Did you push the cartridge reset button? ⇒ After you replace a cartridge, please push and hold the cartridge reset button for more than 2 seconds. 	22
	Cartridge replacement lamp (red light) flushes.	<ul style="list-style-type: none"> ● Please check the life duration of idge on LC display. ⇒ If you use ionizer heavily, you will see this light quick. 	21
	Even though you run water, LC display still shows the life duration of the cartridge.	<ul style="list-style-type: none"> ● When the volume of water running is too small (less than 1.0L/minute), LC display will show the life duration even you run the water. ⇒ Please replace the cartridge. 	—
Processed Water	Small amount of ionized water or filtered water come from the machine. Or, LC display shows the following messages alternately.	<ul style="list-style-type: none"> ● Is the cartridge blocked? ⇒ Please replace the cartridge. Due to the water quality (cloudy materials or iron rust), the timing of cartridge replacement varies. ● Is the water pressure too low? (Tap is not open enough?) ⇒ Please wait till water pressure recover to the normal level. ● Is the feed-water hose bended? ⇒ Please fix the bended part. ● Did you close the lever of corporation stop too much? ⇒ Please open up the lever? 	22 — 11 —
	<div style="border: 1px solid black; padding: 2px; display: inline-block;"> 流量が 少なすぎます </div> Flow Rate too Low		
	<div style="border: 1px solid black; padding: 2px; display: inline-block;"> 水栓を絞りすぎて いませんか? カードリッジが目詰ま りしていませんか? </div> Tap is not open enough? Blocked Cartridge?		
	The processed water has unpleasant taste or odor	<ul style="list-style-type: none"> ● The capability of cartridge lowered. ⇒ Please replace the cartridge. ● Does the pH of alkaline ionized water become too high? ⇒ Please decrease the pH value and use. ● Did you use the processed water while LC display shows "preparing"? ⇒ Please use water after "preparing" sign disappear. ● Is the calcium case clean? ⇒ Please clean the case. 	— 15 15 20
	Water does not come out from exhaust pipe	<ul style="list-style-type: none"> ● Does the discharge nozzle locate too low? ⇒ Please locate the discharge nozzle at least 6 inches (15cm) higher than the exhaust pipe. 	12

	Cases	Possible Problems and Problem Solving	See Page
Processed Water	Alkaline Ionized Water does not show alkaline pH.	<ul style="list-style-type: none"> ● Because of carbonic acid contained in the tap water, sometimes processed water does not show alkaline pH by the test.. Please check if carbonic acid exists or not as following procedures. (1) Put "alkaline 2" water in a cup. (2) Add 2 drops of the PH test liquid in the single-purpose cup. (3) Please pour the water in the cup to the single-purpose cup fill the tick mark. At that time, if water turns to blue or dark blue in the instant, and then becomes green or yellow quickly, the water contains carbonic acid. 	19
	White suspended solid exist in the water.	<ul style="list-style-type: none"> ● Those solids are made as Calcium in the tap water reacted and becomes the solid form. ⇒ They are harmless. 	—
	When you receive "alkaline ionized water" in a cup, you can see shiny, black or dark brown suspended or precipitated solid.	<ul style="list-style-type: none"> ● Because pH of water is high, the dissolved material (mainly mineral) result in precipitate as hydroxide. (They are harmless) ⇒ Please decrease the pH value. 	15
If you apply processed water	The surface of aluminum kettle or pod becomes black color	<ul style="list-style-type: none"> ● If you put alkaline water in aluminum pod and heat up, aluminum gets oxidized and becomes black. (They are harmless) ⇒ Use aluminum products with anodic coating or avoid using alkaline water for aluminum products. 	—
	White substances accumulate on the surface of kettle or pod	<ul style="list-style-type: none"> ● Calcium dissolved in the water is crystallized because of heating. (They are harmless) ⇒ If you want to remove them, soak in the heated diluted vinegar. 	—
	Water becomes cloudy when you heat up	<ul style="list-style-type: none"> ● Heating make the dissolved calcium crystallized (They are harmless) ⇒ Reduce the pH and use. 	15
	Rice becomes yellowish if you cook rice with "alkaline ionized water" and leave for a while.	<ul style="list-style-type: none"> ● Sugar in rice and amino acid react due to heat. (Harmless) ⇒ Please reduce PH value and use. 	15
	Rice is soft when you cook them with "alkaline ionized water".	<ul style="list-style-type: none"> ● Starch in rice becomes loose due to alkaline water, so rice may become softer. ⇒ Reduce pH value of use filtered water. 	15
Others	Water comes out from the bottom of the body part.	<ul style="list-style-type: none"> ● It can happen if water mistakenly enter the body part when you replace the cartridge. The hole to get rid of this kind of water exists at the bottom of the machine. ⇒ Wipe off the water. You can use the machine continuously. 	22
	Clicking sound comes from the machine	<ul style="list-style-type: none"> ● After the automatic washing of electrodes in order to maintain the machine, some parts move inside of the machine and you can hear the clicking sound. ⇒ That is not a failure. 	21

● If nothing improves at all even though you tried the above procedures, it may be a failure of the machine. Please do not repair by yourself and contact to the dealer.

General Name		Alkaline Ionizer		
Type	HI-TA817	HI-TA815	HI-TA813/HI-TA812	
Rating	AC 110V / 60Hz AC 220V / 50Hz 3.0A	AC 110V / 60Hz AC 220V / 50Hz 2.0A	AC 110V / 60Hz AC 220V / 50Hz 1.5A	
Energy Consumption	About 250W	About 170W	About 120W	
Body	Size	Width about 24cm × Depth about 13cm × Height about 32cm		
	Weight	About 5.7kg (W/Water 6.3kg)	About 5.6kg (W/Water 6.2kg)	About 5.4kg (W/Water 6.0kg)
Temperature of Water Use	Lower than 35°C			
Possible Water Pressure (Running)	70~350K Pa			
Possible Water Pipe Pressure (Stopping)	70~750K Pa			
Electrolysis	Exhaust (Processed Volume) WP 100K Pa @ 20°C WP 200K Pa @ 20°C	About 2.0L/Min. About 3.5L/Min.	About 2.0L/Min. About 3.0L/Min.	About 1.5L/Min. About 2.5L/Min.
	Discharge (Volume) WP 100K Pa @ 20°C WP 200K Pa @ 20°C	About 0.5L/Min. About 0.9L/Min.	About 0.5L/Min. About 0.8L/Min.	About 0.5L/Min. About 0.8L/Min.
	Electrolysis Mode	Alkaline : 5levels Acid : 1level	Alkaline : 4levels Acid : 1level	Alkaline : 3levels Acid : 1level
	Maximum Continuous Use	Alkaline Water 1・2・3・..... about 10 mins.(1) Strong Alkaline, Acid Water about 5 mins.(1)		Alkaline Water 1・2・3 about 30mins.(1) Acid Water about 10mins.(1)
	Electrode Washing	Automatic Washing		
Filtered Water Volume WP 100K Pa @ 20°C	2.5L/Min.		1.5L/Min.	
Cartridge	Free Residual Chlorine	12,000L (2)		
	Cloud Substances	12,000L (3)		
	Total Trihalomethane	3,000L (2)		
	Dissolved Lead	12,000L (2)		
	2-MIB (Mold Odor)	3,000L (2)		
	Indicated Replacing Timing	About 12 months (30L/day) (4)		
	Filtering Material	Non-Woven Fabric · Granular Activated Carbon Ion Exchange Fiber · Hollow-Fiber Membrane		
Removable Substances	Free Residual Chlorine · Cloudy Substances · Total Trihalomethane, Dissolved Lead, 2-MIB (Mold Odor)			
Non-Removable Substances	Salt dissolved in the water (e.g. sea salt) and heavy metal (excluding resolving lead)			
Length of Power Code	About 2.5m			

