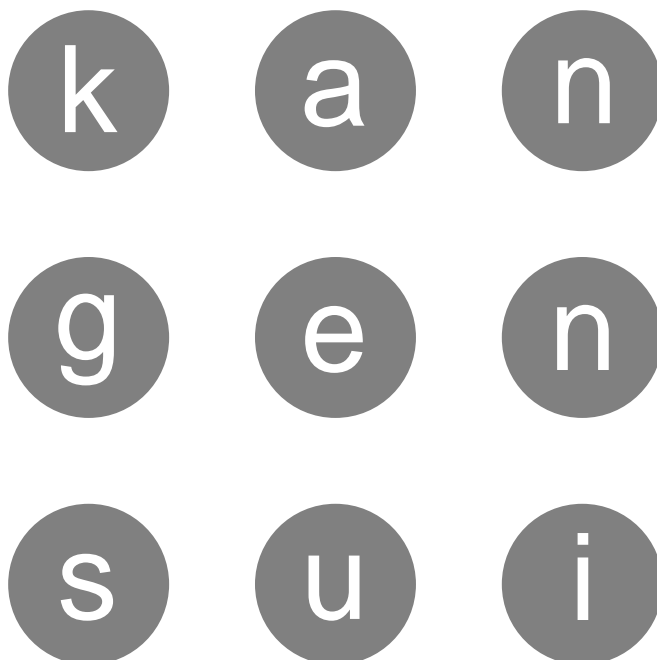


Home Water Processing and Purification Instrument

還元粹

RW-7 User Manual



We thank you for purchasing RAW-7.
Please read this user's manual carefully
and use the instrument properly.





There are two levels of precautions, "Caution \triangle " and "Warning \triangle ", listed in this book. Please note, improper handlings of the instrument that can lead to more serious consequences such as injury or death, are mostly listed in "Warning \triangle " section. Additionally, an action listed as "Caution \triangle " may lead to serious consequences under certain circumstances. Therefore, they both are important content to your safety matter. For this reason, please read and follow this instruction manual carefully.

We cannot be responsible for the cases of improper installation or use of the instrument that result in damage to the product or accident.







After reading through for the first time, please keep this instruction manual in a place where users have easy access to.

In our company, alkaline electrolyzed water, generated from the cathode by electrolysis, is called "Antioxidant Water", and acidic electrolyzed water, generated from the anode by electrolysis, is called "Electrolyzed Acidic Water". Following in this document, they are described as KANGENSUI (Antioxidant Water) and Acidic water (Electrolyzed Acidic Water).

■ Please pay special attention to and read carefully the documents with the warning marks that listed below.






Mark	Measure of Risks
 Warning	Ignoring the warning marked text and handling the instrument improperly, may lead to serious accident that results injury or even death. (The text indicating those critical warnings are colored in red and surrounded by , in this document.)
 Caution	Ignoring the caution marked text and handling the instrument improperly, may cause injury or property damage. (The text indicating those cautions are surrounded by , in this document.)

■ Description of the displayed marks







Mark	Title	Meaning
	General	Used for a notice, caution, and warning, of danger in general.
	General	Used for a notice of prohibition in general.
	General	Used for an instruction to acts of user in general.
	Prohibition of use around watery environments such as	Used for a notice of prohibition, indicating a possible injury caused by electronic leakage, by using a non-waterproof
	Prohibition of disassemble	Used for a notice of prohibition, indicating a possible injury caused by electric shock, by disassembly of of an equipment.
	Unplug the power from the outlet	Used for an instruction to a user to unplug the power from the outlet, to prevent a possible damage caused by malfunction of the the equipment or lightning.







Please read - for your safety -

Warning

	<p>Please note the following when drinking KANGENSUI.</p> <p>(1) Do not take medicine with KANGENSUI (Simultaneously). Use regular purified water when taking medicine.</p> <p>(2) a person who is Achlorhydria should not drink KANGENSUI at all.</p>
	<p>Do not connect with other equipment or use simultaneously.</p>
	<p>Do not use undrinkable water. Failing to do so may compromise your health.</p>
	<p>A person fits the descriptions below should consult with doctor or pharmacist, prior to drinking KANGENSUI.</p> <p>(1) who has chronic disease or is debilitated</p> <p>(2) who has liver or kidney disease</p> <p>(3) who is seeing doctor or dentist</p>
	<p>If you feel an abnormality on the body, as well as no improvement on the symptoms, when continuously drinking KANGENSUI, please consult with doctor or pharmacist.</p>
	<p>A person fits the descriptions below should consult with doctor or pharmacist, prior to drinking Acidic water.</p> <p>(1) who has sensitive skin</p>
	<p>If you feel an abnormality on your skin when using Acidic water, please stop using it right away and see a physician.</p>
	<p>Do not remodel, decompose, or repair this instrument on your own. by doing so may cause a serious accident such as fire or electric shock, which we cannot be responsible for.</p>
	<p>Do not use this instrument in a place where there is a lot of moisture, like bathroom. Similarly, do not pour water directly or wash the instrument in water. Those can cause an electric shock.</p>
	<p>Do not plug or unplug the power plug with wet hands. Similarly, please unplug the instrument for the maintenance. Failing to do so cause an electric shock.</p> <p>If you accidentally drop the body of the instrument in the water, make sure to disconnect the power cable from the electrical outlet, before pulling the body up from the water. It can cause electric shock. Once recovered from the water, contact your dealer or our company for the repair, and do not try using it on your own.</p>

Caution

	<p>Place the body of the instrument on a horizontal position. Do not place it on unstable surface or the inclined position. It may fall over or fall to cause injury.</p>
	<p>DO not place the instrument in a place exposed to direct sunlight, or near a stove, cooker, or water heater. It may cause a malfunction.</p>
	<p>Do not directly connect the instrument to a water heater. It may cause an accident or a malfunction.</p>
	<p>Do not place any objects on top of the body of the instrument. It may cause an accident or a malfunction .</p>
	<p>Please request your dealer or service store if you wish to wall-mount the body of the instrument, and do not try a wall-mounting installation on your own. It may fall down and cause an accident.</p>
	<p>Do not bent or twist hoses. It may cause a water leakage. Particularly, do not wire or round the drain hose in vertically higher places than the body of the instrument. It may cause a malfunction.</p>
	<p>Do not use the instrument other than the described supply voltage (200 ~ 240V AC). Failing to do so may cause a fire or an electric shock.</p>
	<p>Do not fix the power cable with a tools like staples. It may damage the power cable and cause a fire or an electric shock.</p>
	<p>Do not connect multiple electrical products to a single outlet. It may generates heat and cause a fire.</p>
	<p>Please let water flow on dish washing mode for a minute, prior to drinking Antioxidant water on KANGENSUI mode, at the beginning of everyday use. If the instrument has not been used for more than few days, also let water flow on dish washing mode for three minutes, prior to drinking Antioxidant water on KANGENSUI mode.</p>
	<p>pH 9.0~9.5 is generally suitable for drinking. However, a person drinking Antioxidant water for the first time, should start with a small amount of the neutral pH range water.</p>
	<p>To store Antioxidant water, please use a sterilized sealed container, and keep it in a refrigerator. Do not keep it no more than two days for drinking propose. Failing to do so may impair your health.</p>
	<p>Do not drink following types of water. It may impair your health; (1) pH level is more than 10. Please test water's pH level on a regular basis. (2) Acidic water (3) Water containing the pH testing solution (4) Water, comes from the drain hose</p>
	<p>Do not use any processed water for breeding fishes like goldfish or tropical fish. It may cause environmental changes and fishes may die.</p>

	Do not use alkali sensitive or acid sensitive dishes, aluminum and copper container, for instance. Those may be damaged.
	When the produced water has unusual odor, please stop drinking, and contact your dealer right away.
	Handling of the pH test solution, please note the following; (1) Do not drop in your eyes or drink. If you mistakenly drop it in your eye, wash your eyes right away with a lot of water. If you mistakenly drink it, drink a lot of water. In both case, see a doctor as soon as possible. Failing to do so may compromise your health. (2) Please make sure to cap the bottle and keep it out of the children's reach.
	Do not use other than specified calcium lactate. Failing to do so may impair safety.
	Do not throw water over the body or wash it with water. It may cause electric leakage or shock.
	Do not block air holes with the hands or objects. Similarly, do not insert things in the air holes. It may cause electric shock, fire, or injury.
	Please do not block the exit of the water. It may cause water leakage or mechanical failure.
	Do not use detergent, bleach, alcohol, benzine, thinner, cleanser, or insecticide of any kind, for cleaning. It may cause deformation, discoloration, or cracked of the instrument.
	if a dust adheres to the outlet, please disconnect the power plug once and wipe off. Leaving with dust may cause fire.
	Do not scratch, corrupting, modify, pinch, or bundle the power cable. Neither should not excessively twist, bend, pull, or place heavy objects on the power cable. It may cause fire or electric shock.
	Do not use the instrument, when the power cable or plug is damaged. Neither when the outlet is loose. It may cause electric shock or fire.
	When not using the instrument to process water, please make sure to set the switching dial to "Raw water" or "Shower". Leaving the switching dial on "purified water" when the tap is not shut completely, causes water to continuously flow from the drain hose.
	After not using the instrument for a long period of time, please contact your dealer before start re-using the instrument.

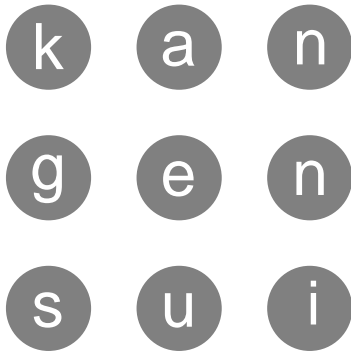



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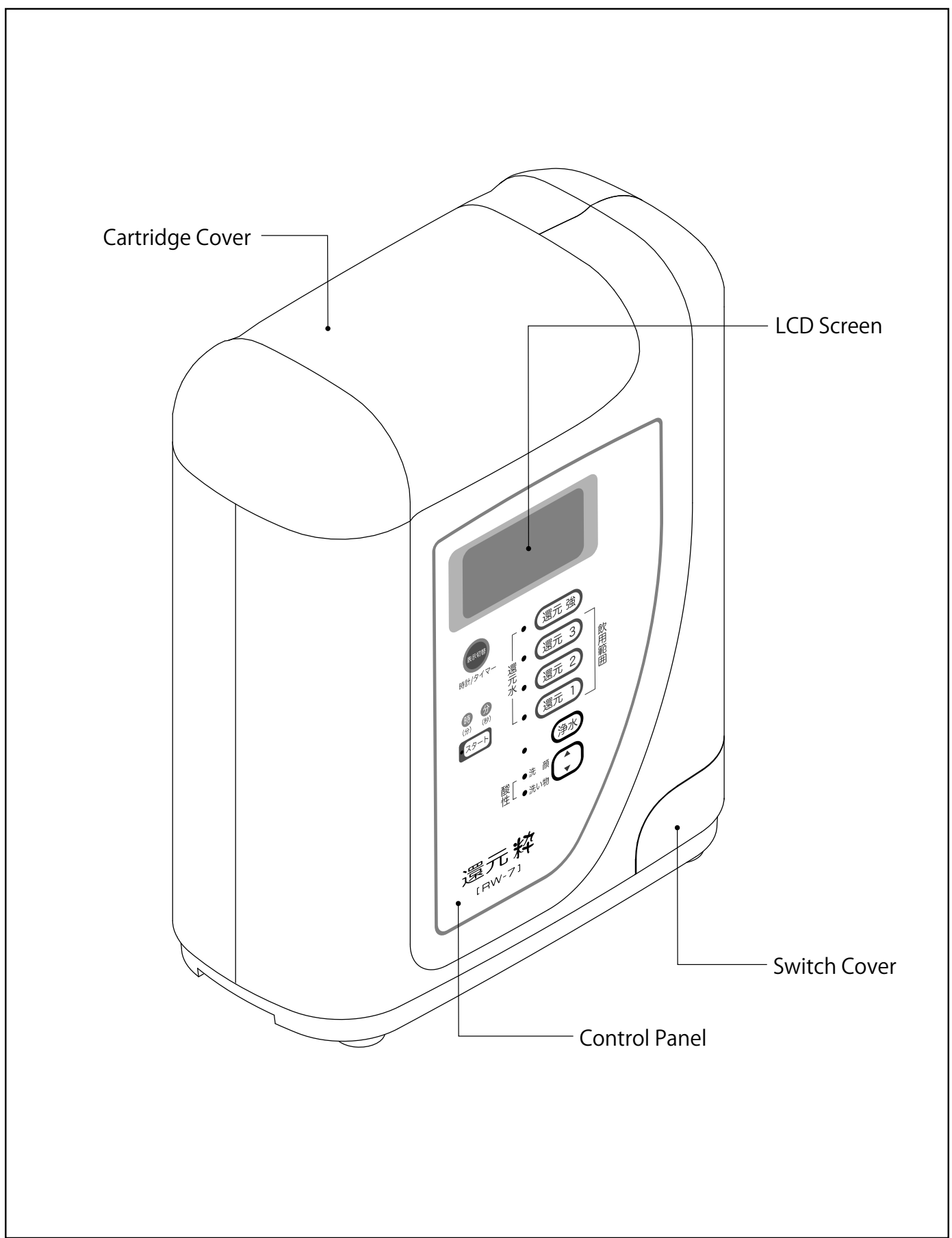
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Notes on Use

	<p>This instrument is for the drinkable water specified by Ordinance No. 101, Ministry of Health, Labour and Welfare of Japan, in 2003.</p>
	<p>Do not use for following type of water. It may cause a damage to the instrument;</p> <ul style="list-style-type: none">(1) Terribly turbid water(2) Very hard water(3) High salinity concentration water(4) High red rust concentration water(5) Hot water for more than 50 °C (Body of the instrument)
	<p>This instrument is intended for general home use.</p>
	<p>This instrument has a safety device, called Twin Safety Valve, built-in. Twin Safety Valve is for;</p> <ul style="list-style-type: none">1. Hot water inflow prevention function. hot water about 50 °C or more, to prevent the inflow the instrument.2. Relief valve function Operates at 0.25 ~ 0.3MPa, to prevent damage from excessively high tap-water pressure. These are the function of Twin Safety Valve. <p>*Relief valve function, works when the water pressure of inflow rises (0.25 ~ 0.3MPa), usually caused by clogging of the cartridge, or bent of the connecting hoses, for instance.</p>
	<p>As cautions for usage, please read P.1 [for your safety] as well.</p>

Names of Parts

Instrument front



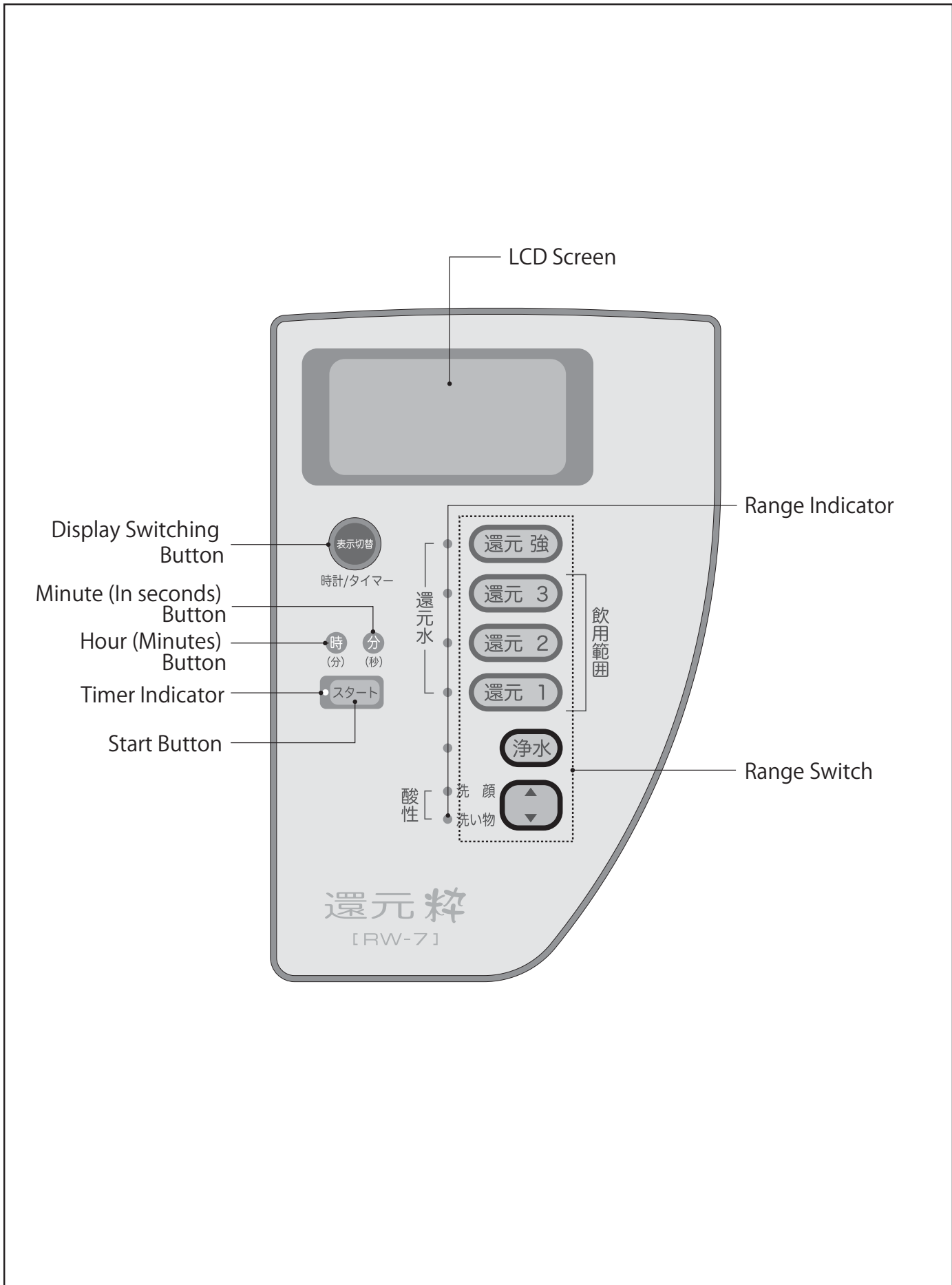
Cartridge Cover

LCD Screen

Switch Cover

Control Panel

Control Panel



Switch Pocket

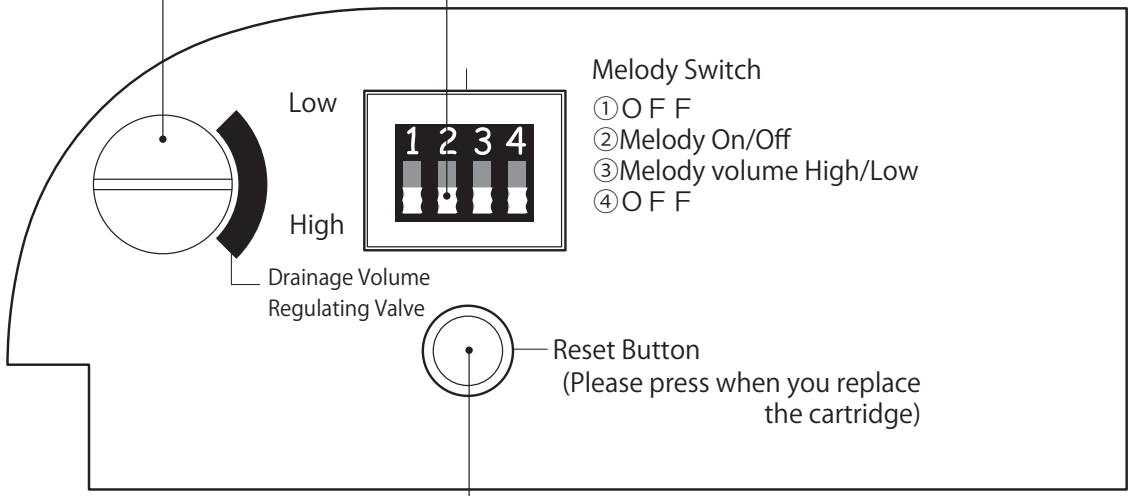
● To control, please remove the switch cover. (How to remove the switch cover, please refer to P.24.)

Drainage Volume Regulating Valve

Regulate a volume of water flowing out of the drain hose.
 Turning to the right to increase the flow volume of drainage, and turning to the left to decrease.
 ※ It has been set to factory default. Therefore, do not turn unless it is necessary.

Melody Switch

All switches have been set to downside as factory default.
 1. Functional Confirmation (Please do not touch)
 2. Melody On/Off (set switch to the upper side for turning off the melody, when generating Antioxidant water)
 3. Melody volume High/Low (set switch to the upper side for increase the melody volume)
 4. OFF (Do not touch)



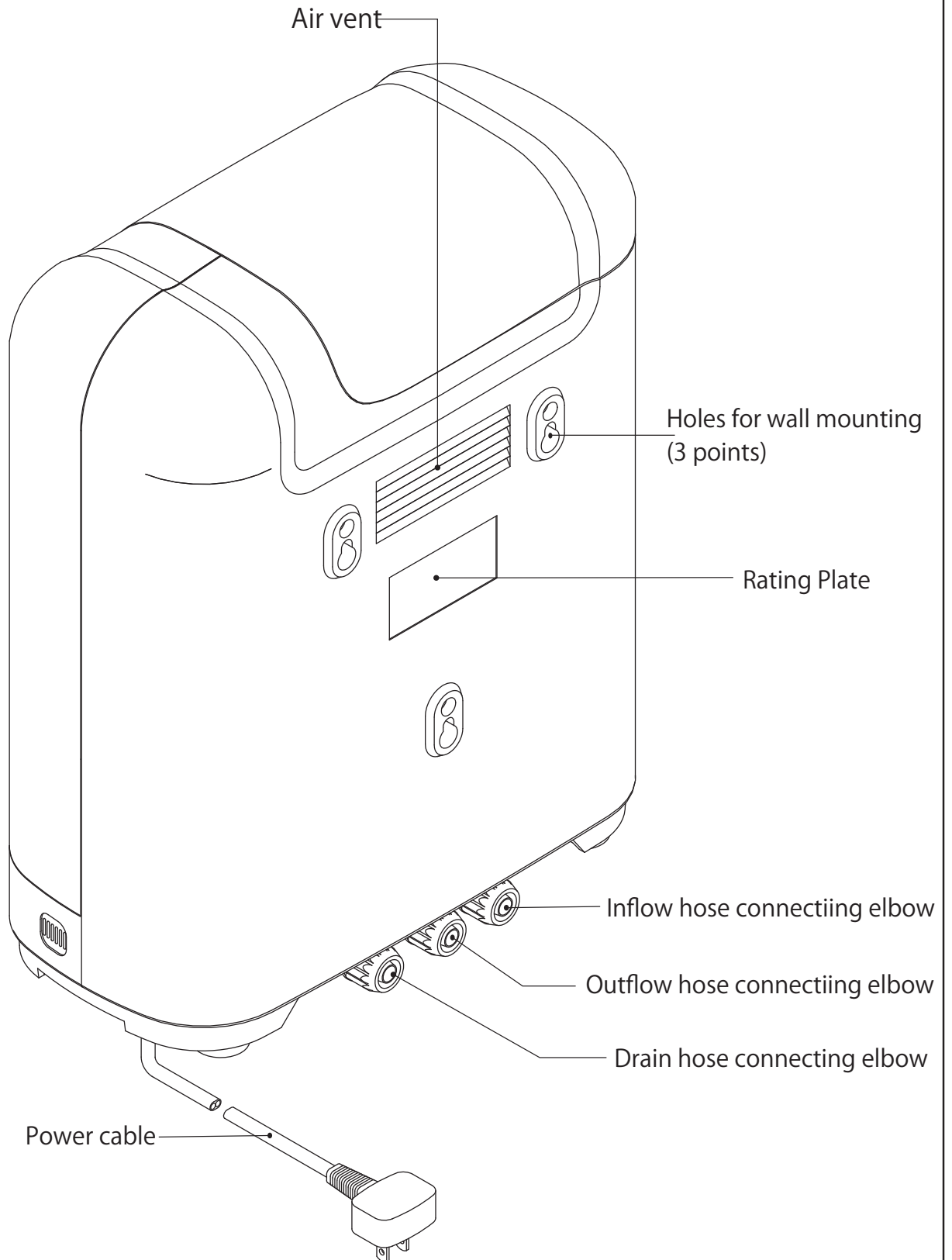
Melody Switch

- ① O F F
- ② Melody On/Off
- ③ Melody volume High/Low
- ④ O F F

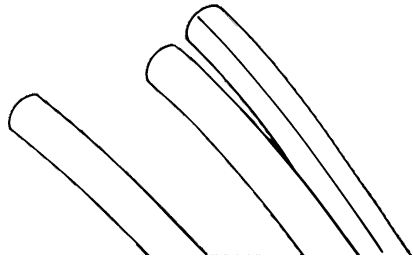
Reset Button
 (Please press when you replace the cartridge)

Reset Button
 Please press the reset button after replacing the water purification cartridge. Thereby, the accumulated inflow volume and the accumulated time on the LCD screen will be back to "0".
 ※ Please press it right after the the initial installation of the instrument.

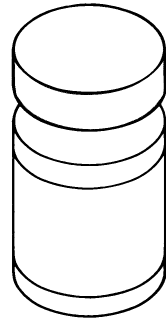
Instrument Back



Accessories



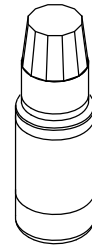
Inflow and Outflow hoses (a Twin hose)
Drain hose (a single hose)



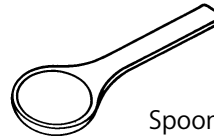
Calcium lactate



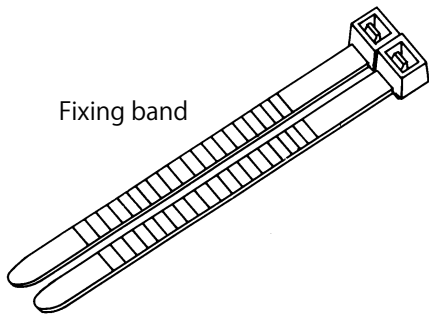
Test tube



Phenolphthalein solution

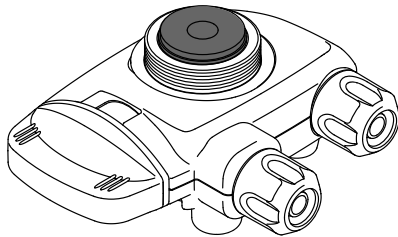
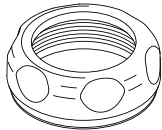


Spoon



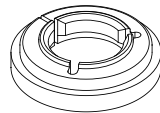
Fixing band

Tightening cap

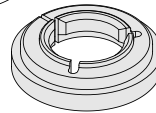


Faucet Stream Router

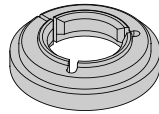
A-set C-ring



16mm (White)



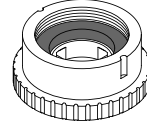
17.5mm (Blue)



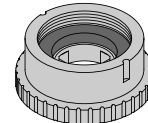
19mm (Gray)

B-set

Faucet aerator adapter (outward screw)



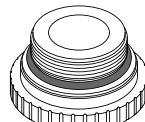
for Japanese model (white)



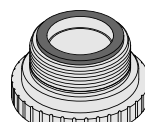
for Foreign model (Gray)

C-set

Faucet aerator adapter (inward screw)

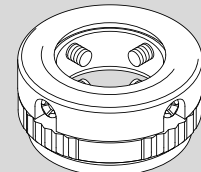


for Japanese model (white)



for Foreign model (Blue)

D-set



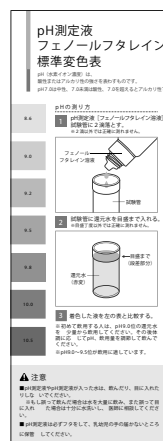
Bracket screws



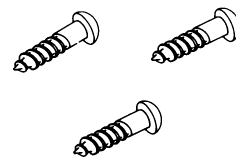
Warranty card



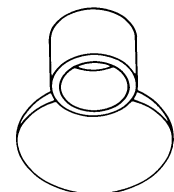
User's Manual



Discoloration standard table for pH solution test




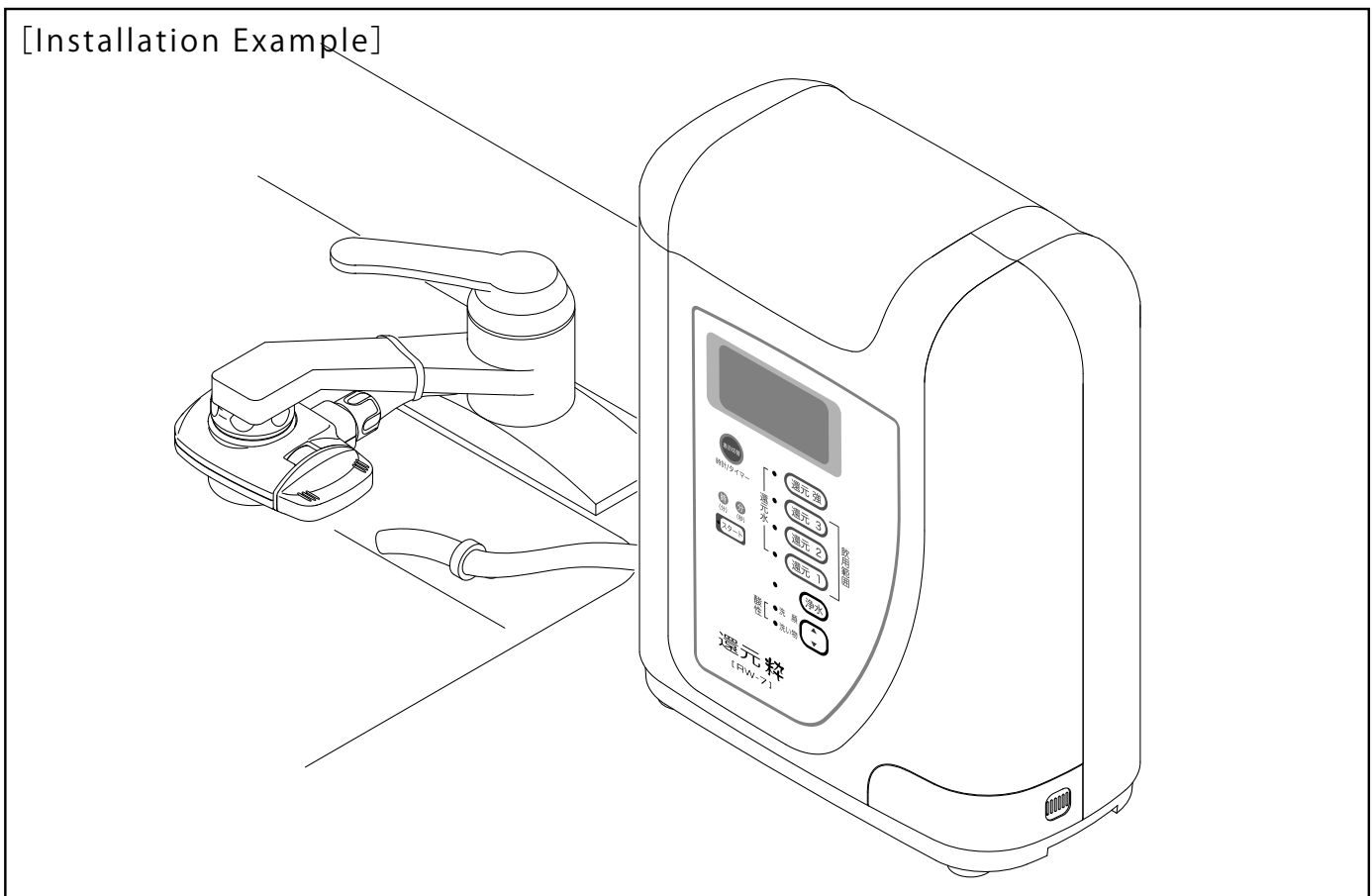
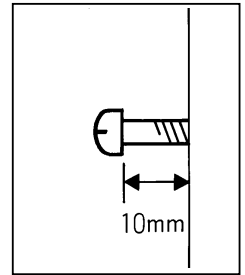
Wall mounting screws



Sucker

Installation of the body

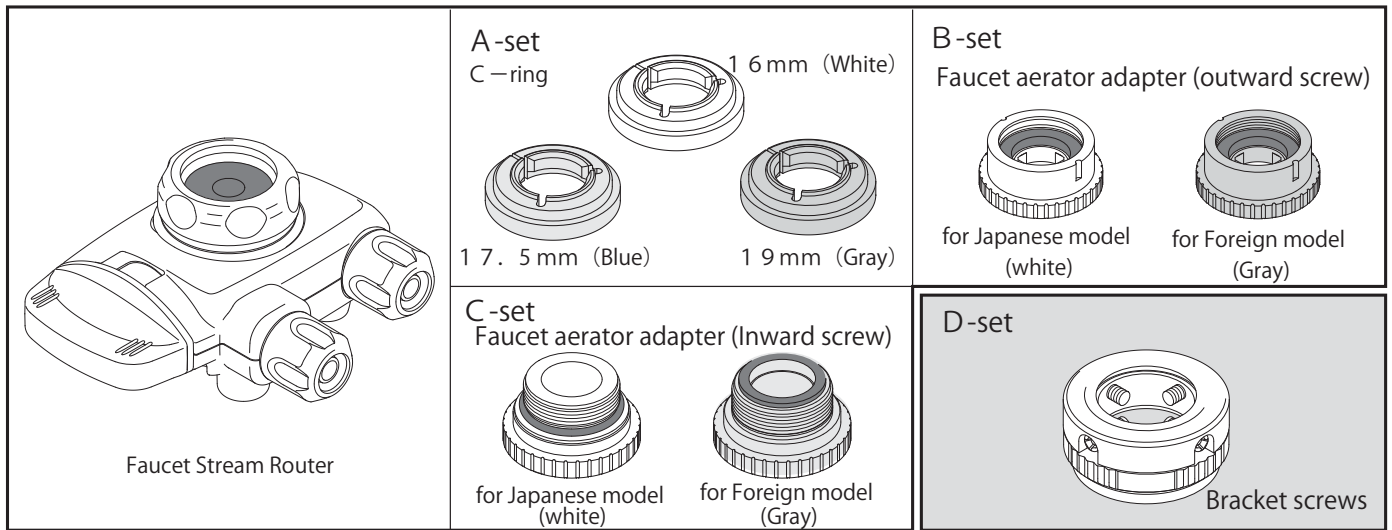
	<p>Please place the body of the instrument on where it is flat and stable.</p>
	<p>Do not place the body of the instrument at the following locations;</p> <ol style="list-style-type: none"> (1) Anywhere near a fire or high-temperature (more than 60 °C) place (2) Excessive dust or moisture densely place (3) Anywhere the body is exposed to splash of water, such as in a bathroom and by an open window. (4) Anywhere the body is exposed to direct sunlight or other heat generating
	<p>When the body is wall-mounted to be used, please note the followings for its installation;</p> <ol style="list-style-type: none"> (1) Please ensure the wall, which the body will be mounted, is structurally strong enough for the weight of the body. (2) Use the wall-mounting screw sheets, included in the box, to locate the screw points. (3) Drill with the wall-mounting screws, included in the box, into the wall, till the depth showing in the right picture. (three locations) (4) Peel off the seals from the wall-mounting holes, located in back of the body, and fit those holes to the wall-mounted screws to hang the body on th wall. Please make sure that it is stable.
	<p>Plug the power to an outlet (AC200 ~ 240V, 50/60Hz).</p>
	<p>For installation of the body, please read "For Your Safety" (P.1) as well.</p>



How to install the Faucet Stream Router

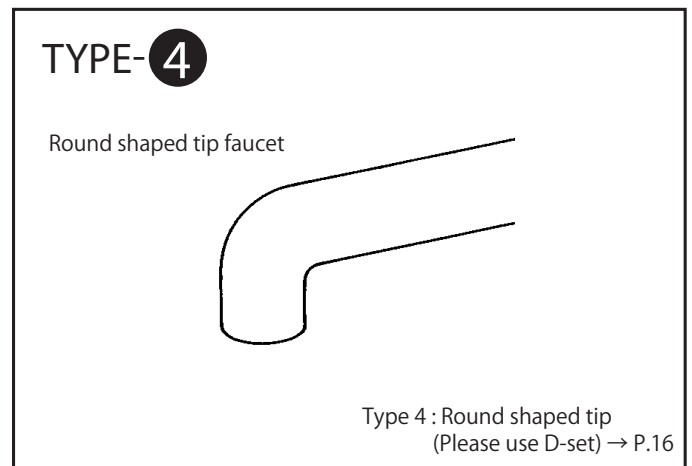
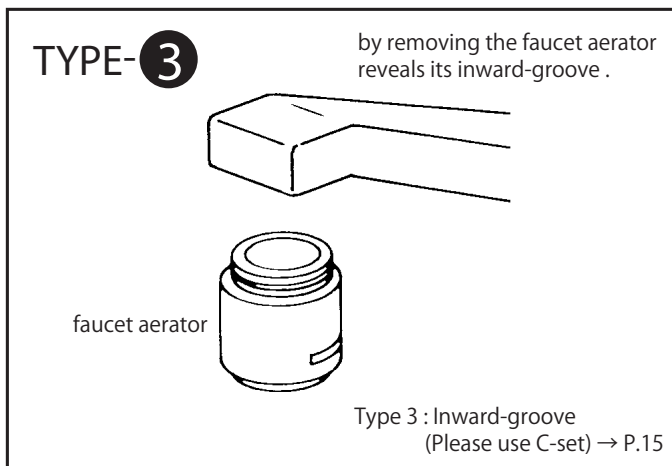
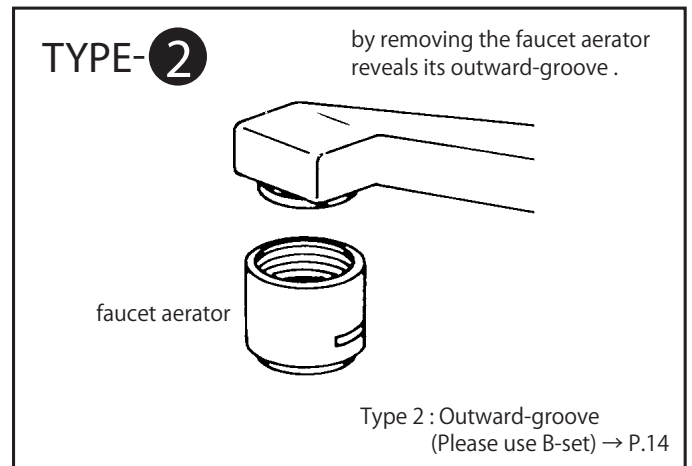
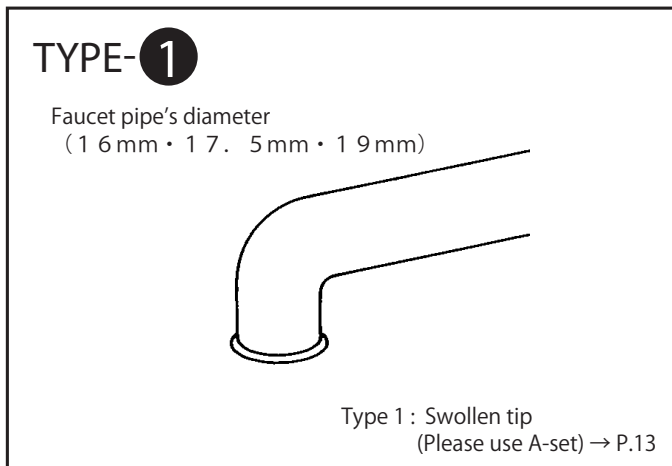
[Installation Preparation]

A Faucet Stream Router set comes with seven types of adapter. An adapter that you need depends on the type of your faucet.



[Checking the Water Faucet]

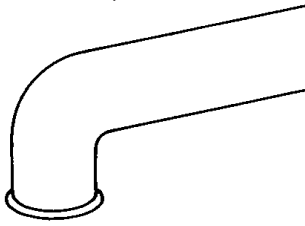
Please check which of the following types of water faucet is used at your home.



If your faucet fits none of the above types, please contact your dealer or our customer support dial.

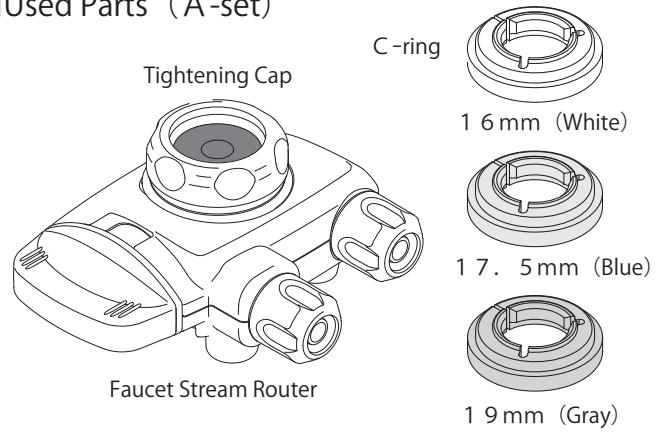
TYPE-1

The faucet has a swollen tip

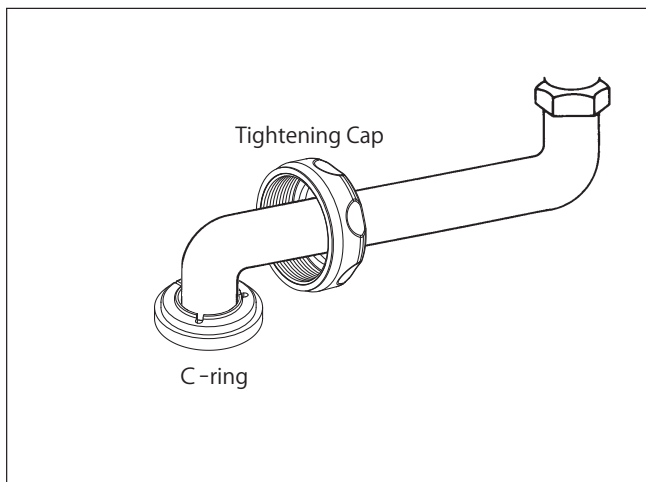
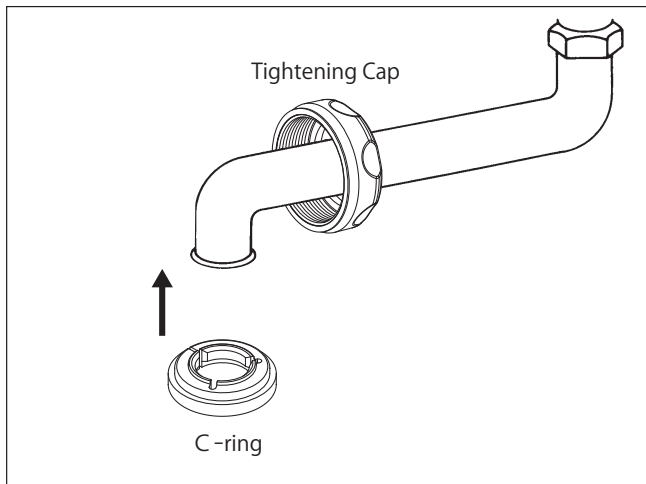


Faucet pipe's diameter (1.6 mm • 17.5 mm • 19 mm)

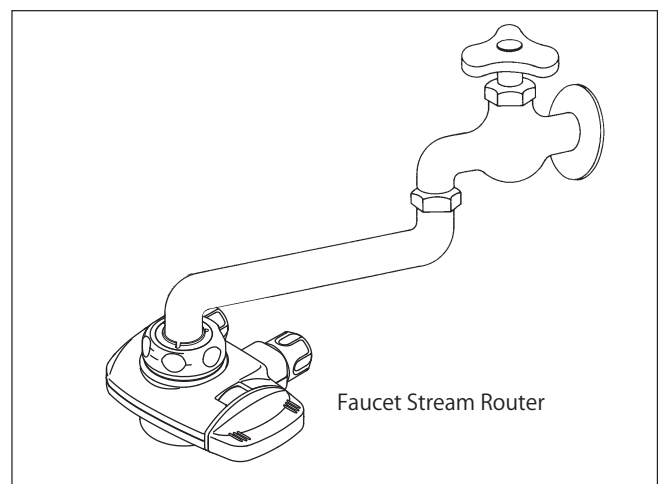
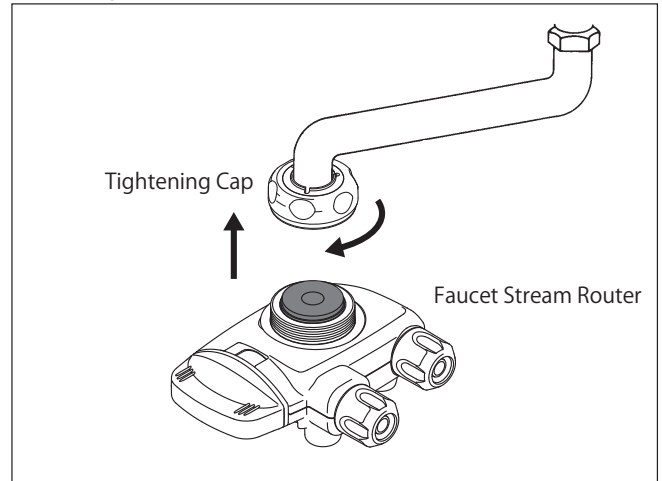
Used Parts (A-set)



- (1) Put through the tightening cap to the faucet.
 - Be careful with the direction of the tightening cap.
- (2) Attach the C-ring to the tip of faucet.
 - Gently spreading the notches would make it easier to attach it.

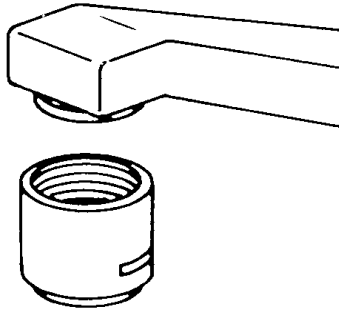


- (3) Attaching the faucet stream router by screwing the tightening cap until it is completely tightened, while pushing it up against the tip of the faucet and making its rubber grommet to fully contact the tip of faucet.



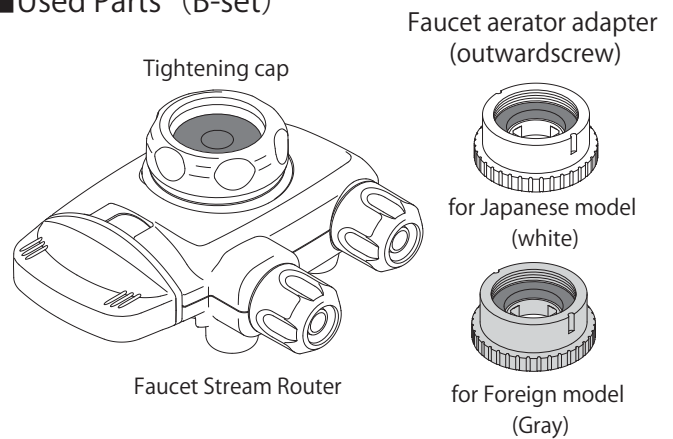
This is all for installing the faucet stream router.
※ Connecting the hoses to the faucet stream separator, please see "How to connect the hoses" at P.17.

TYPE-2

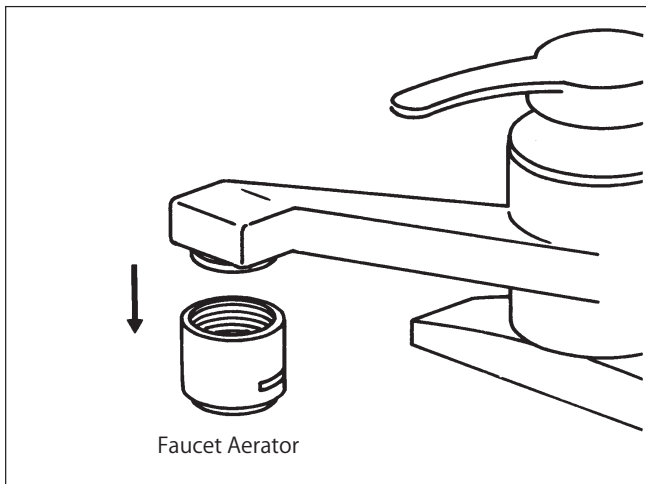


Faucet aerator can be detached (outward-screw)

■ Used Parts (B-set)

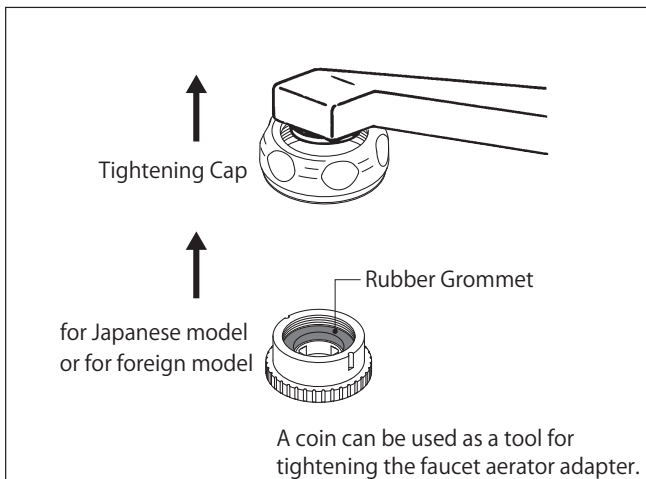


(1) Remove the faucet aerator.

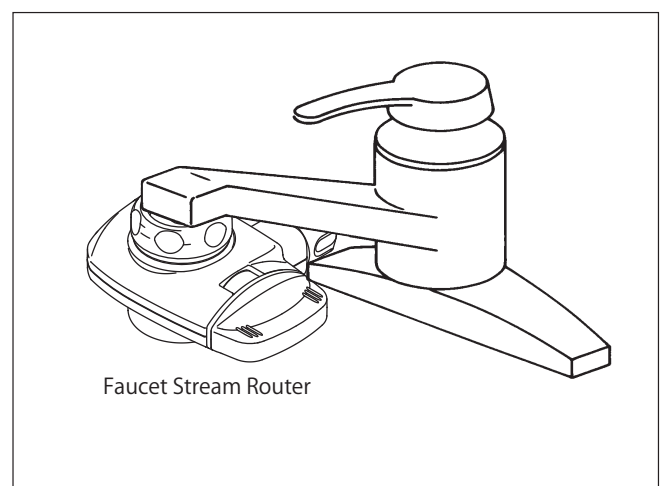
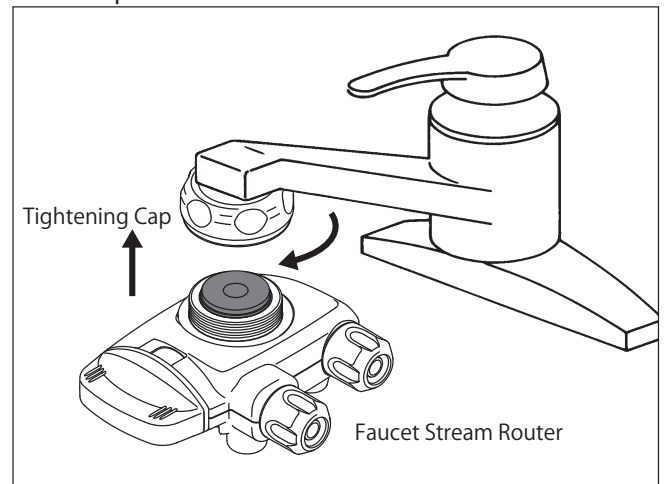


(2) Put through the tightening cap to the faucet.
● Be careful with the direction of the tightening cap.

(3) After removing the faucet aerator, attach the faucet aerator adapter (for Japanese model)
● Try the one (for foreign model), when the faucet aerator adapter (for Japanese model) does not fit.

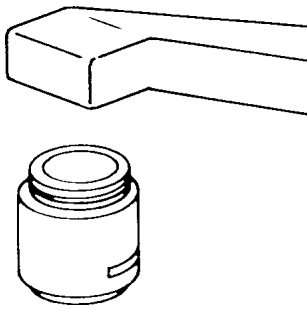


(3) Attaching the faucet stream router by screwing the tightening cap until it is completely tightened, while pushing it up against the tip of the faucet and making its rubber grommet to fully contact the tip of faucet.



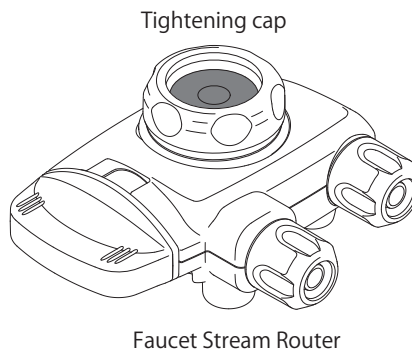
This is all for installing the faucet stream router.
※ Connecting the hoses to the faucet stream separator, please see "How to connect the hoses" at P.17.

TYPE-3



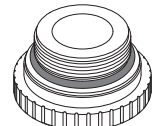
Faucet aerator can be detached (Inward-screw)

■ Used Parts (C-set)

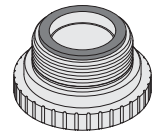


Faucet Stream Router

Faucet aerator adapter (Inwardscrew)

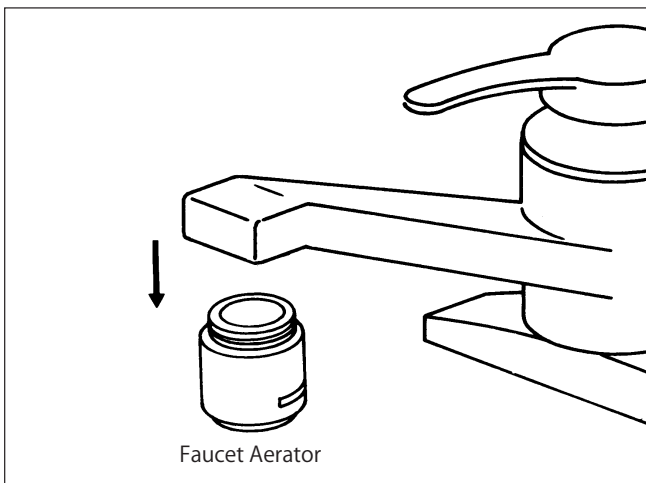


for Japanese model (white)



for Foreign model (Gray)

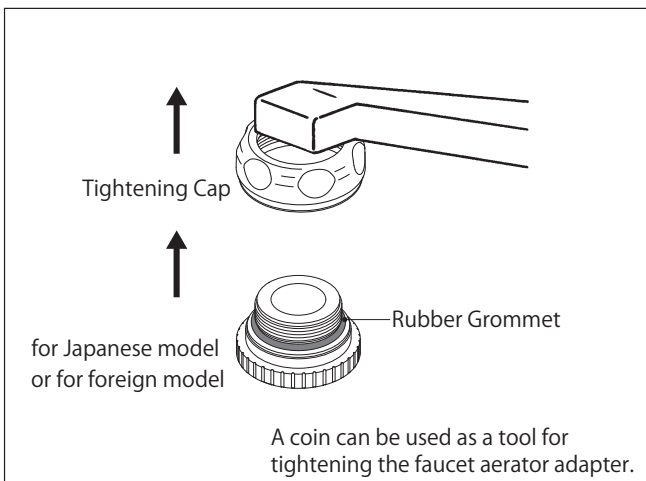
(1) Remove the faucet aerator.



Faucet Aerator

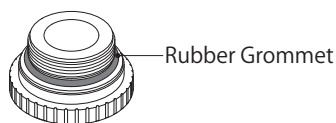
(2) Put through the tightening cap to the faucet.
 ● Be careful with the direction of the tightening cap.

(3) After removing the faucet aerator, attach the faucet aerator adapter (for Japanese model)
 ● Try the one (for foreign model), when the faucet aerator adapter (for Japanese model) does not fit.



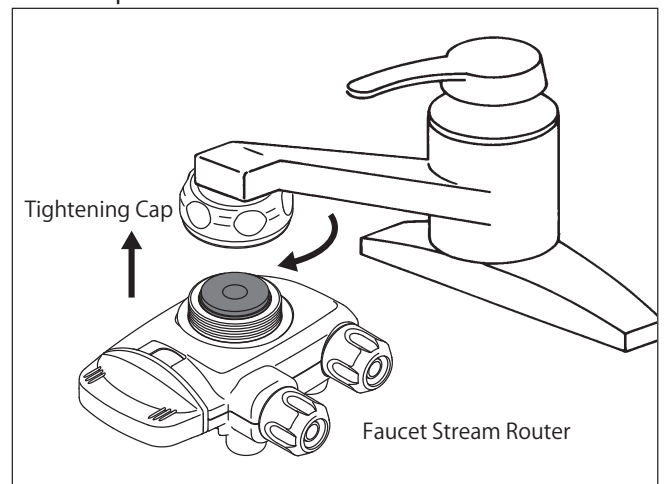
Tightening Cap

for Japanese model or for foreign model



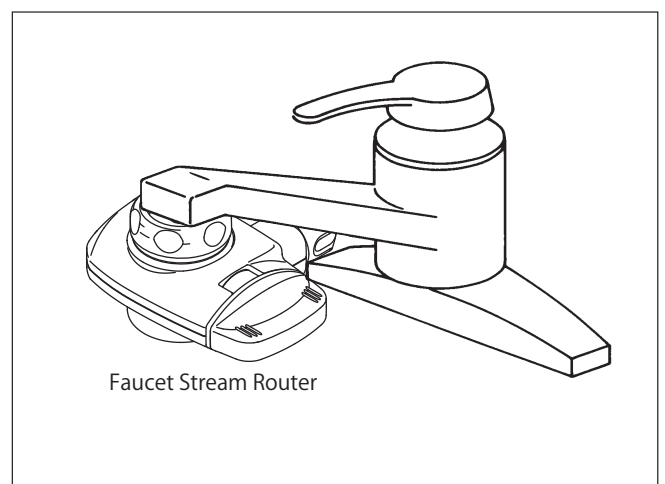
A coin can be used for tightening the faucet aerator adapter.

(3) Attaching the faucet stream router by screwing the tightening cap until it is completely tightened, while pushing it up against the tip of the faucet and making its rubber grommet to fully contact the tip of faucet.



Tightening Cap

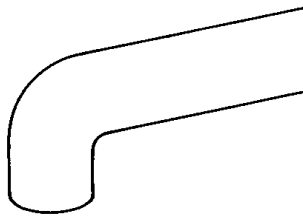
Faucet Stream Router



Faucet Stream Router

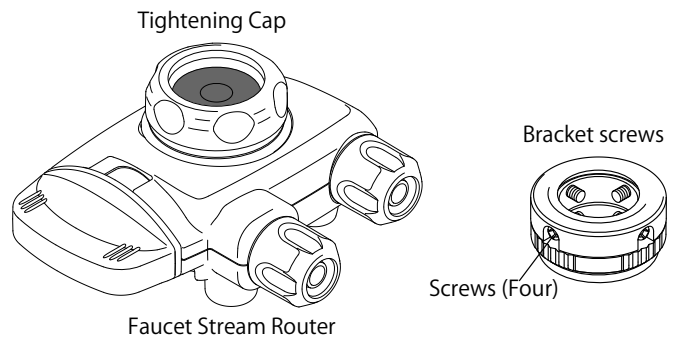
This is all for installing the faucet stream router.
 ※ Connecting the hoses to the faucet stream separator, please see "How to connect the hoses" at P.17.

TYPE-4



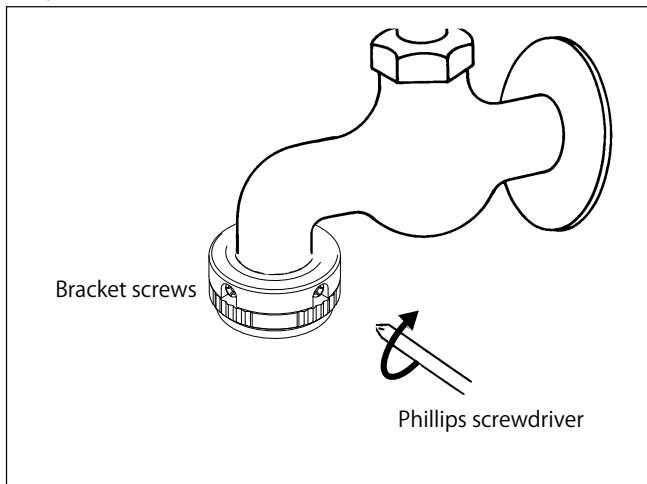
Round shaped tip

■ Used Parts (D-set)

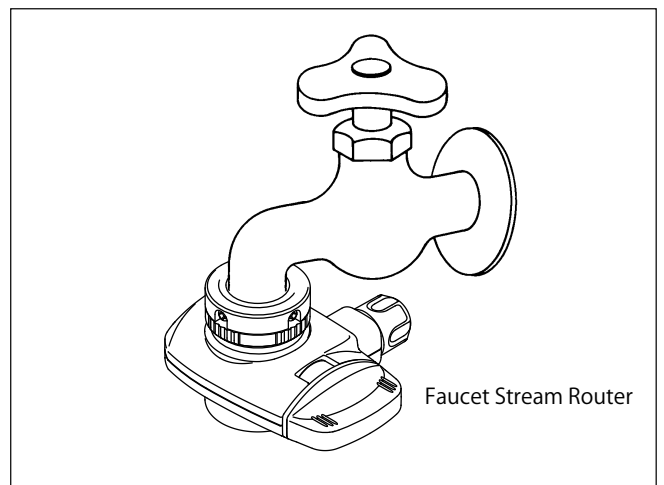
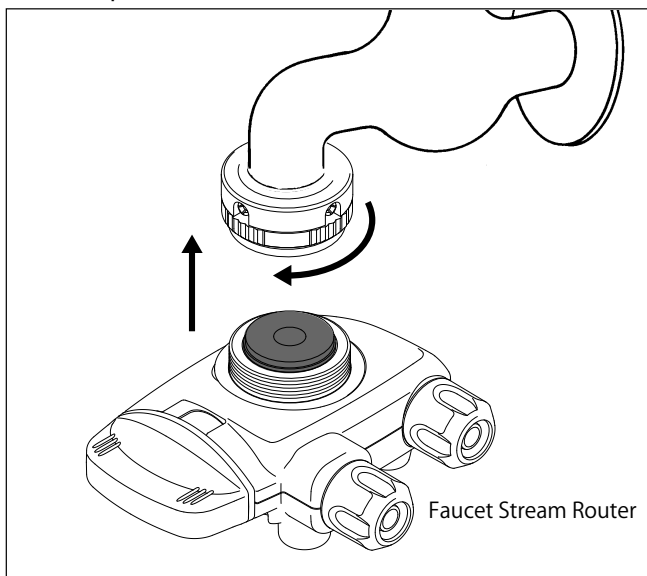


※Please prepare a Phillips screwdriver.

(1) Tighten screws evenly so that the faucet is placed in the center of the bracket.



(2) Attaching the faucet stream router by screwing the tightening cap until it is completely tightened, while pushing it up against the tip of the faucet and making its rubber grommet to fully contact the tip of faucet.



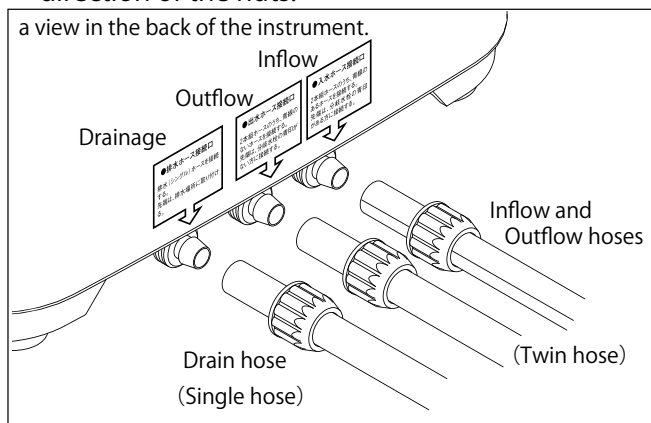
(3) This is all for installing the faucet stream router.
※Connecting the hoses to the faucet stream separator, please see "How to connect the hoses" at P.17.

How to Connect the Hoses

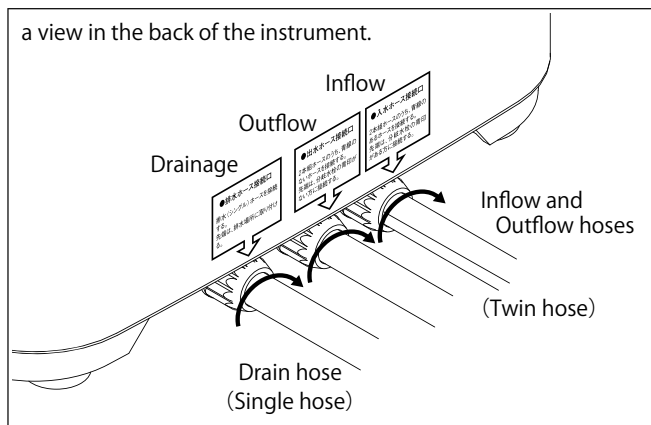
[Connecting the hoses to the body]

To connect the three connecting elbows, which locate at the bottom of the instrument, and the three hoses, Inflow and Outflow Hoses (a twin hose) and Drain Hose (a single hose).

- (1) Remove the nuts and inner caps attached to the elbows, and put those detached nuts through the three hoses. Please be careful with the direction of the nuts.



- (2) Deeply insert each elbows into the hoses, then tightly screw the nuts to fix them.



- (3) Use included sucker to fix the drain hose to point the sink.

Inflow and Outflow hoses are two consecutive tubes. Therefore, there is a blue line on one of the hoses to prevent cross-connection of the inflow and outflow connectors.

- Connect the blue lined hose to the inflow connecting elbow of the body of the instrument, as well as to the inflow connector of the faucet stream router. (they both are also blue marked)

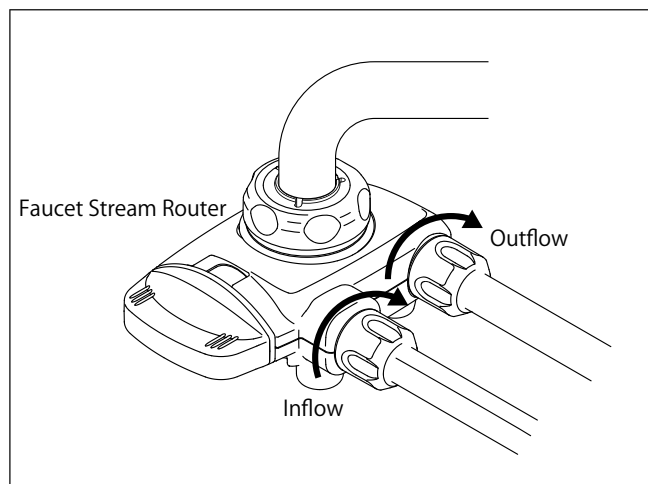
[Connecting the hoses to the faucet stream router]

Connect the other end of the hoses, that are now connected to the body of the instrument, to the faucet stream router.

- (1) Adjust the length of the twin hoses by cutting short to make it appropriately connect between the body of the instrument and the faucet stream router.

Remove the nuts attached to the faucet stream router and put them through into the hoses. (Please be careful with the direction of the nuts)

- (2) Deeply insert each connectors into the hoses, then tightly screw the nuts to fix them.
 - Connect the Blue lined hose, which connected to the inflow elbow connector on the side of the body, to the inflow connector (also blue marked) of the faucet stream router, and connect the other hose to the outflow connector.



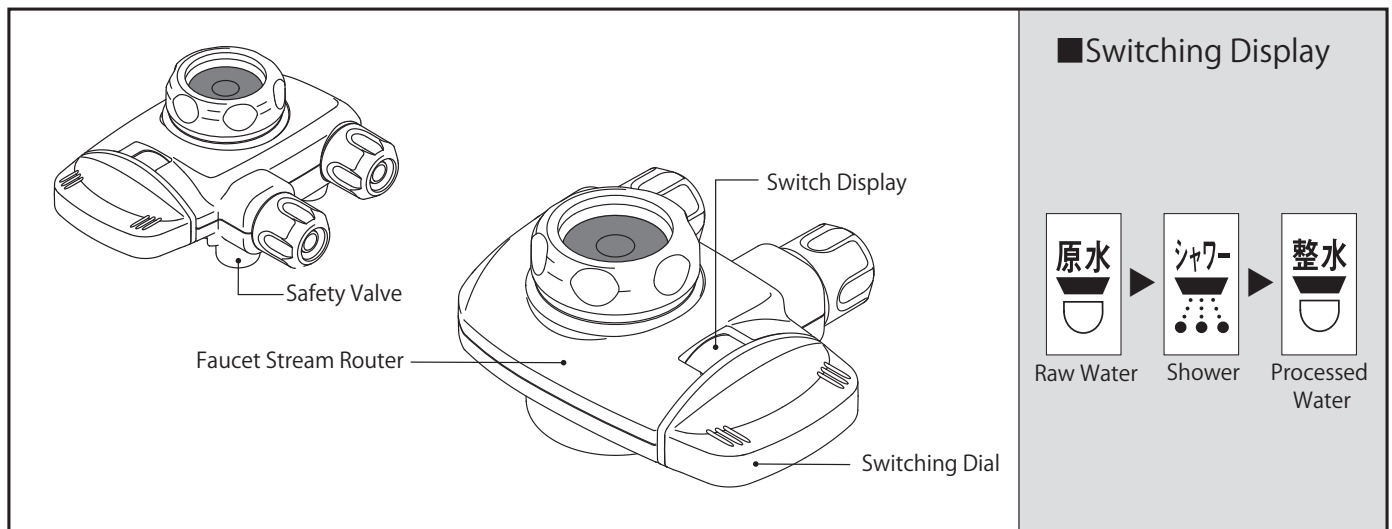
- (3) Use included fixing band to fix the hoses.



Please make sure to press the reset button after the the initial installation of the instrument as well as after replacing the water purification cartridge. (The accumulated inflow volume and the accumulated time on the LCD screen restart from "0")

Please run the water on "acidic water dish washing mode" for 5 minutes, after the initial installation.

Handling the Faucet Stream Router



[Inflow of Antioxidant Water, Electrolyzed Acidic Water, and Purified Water.]

Set the switching dial to "Processed Water" (to choose between Antioxidant Water, Electrolyzed Acidic Water, and purified water, use the water range button on the instrument's control panel)

- While not using the instrument, please set the switching dial to "Raw Water" or "Shower". If the switching dial is kept on "Processed Water" and the faucet is left open, water would continuously run from the drain hose.
- Do not use hot water on "Processed Water" channel.

[Using Raw Water]

Set the switching dial to "Raw Water" or "Shower" to run the water directly from water tap.

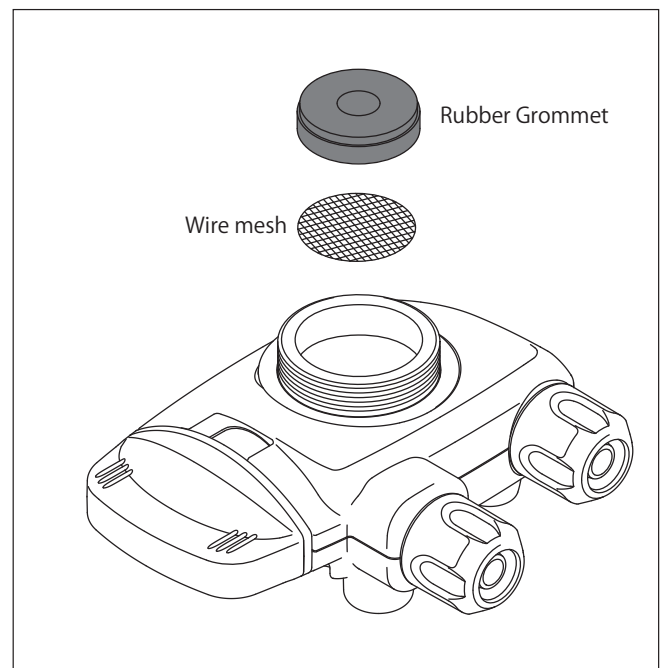
- When you run hot water on "Raw Water" and "Shower" channel, please use it at 60 °C or less.

[Safety Valve]

- (1) Water drains from the safety valve under following circumstances.
High pressure inflow in the faucet stream router.
 - (2) Clogging in the water purification cartridge
 - (3) Bent of the connecting hoses.
- ※ If water drains from the safety valve, please refer to the procedures on the checklist at P.28.

[How to Maintenance]

Detach the faucet stream router from the faucet, and clean the wire mesh, placed under the rubber grommet, by gently brushing in the water.












About the LCD Screen

The LCD screen flashes when the power cable is plugged. This is called "Standby" state. If no operation has been performed on the instrument for 4 minutes, then it automatically goes into "Power-saving" state. All indicators on the control panel, as well as the backlight of the LCD screen goes off, while being in Power-saving state.

When any of the control buttons is touched, the instrument goes back in Standby state.

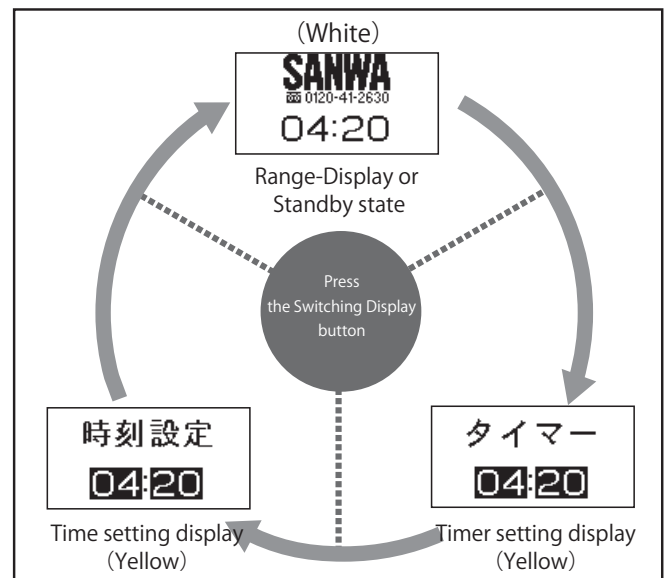
When a range button is pressed while being in Standby state, the LCD screen mutually displays the selected range and its purposes. This is called "Range Display" state.

		Display of Stanby State (Color of the Screen)	Display of Range Display State (Color of the screen)		Display of during inflow	
K A N G E N S U I	KANGEN Intense	 (White)	還元強 (調理)	(Blue) ←→ displays mutually	煮物 アク抜き 	還元強 (調理) 通水量 5.1 ℓ/分
	KANGEN 3		還元3 (飲用)	(Blue) ←→ displays mutually	飲用 お茶 コーヒー 	還元3 (飲用) 通水量 5.1 ℓ/分
	KANGEN 2		還元2 (飲用)	(Blue) ←→ displays mutually	飲用 炊飯 	還元2 (飲用) 通水量 5.1 ℓ/分
	KANGEN 1		還元1 (飲用)	(Blue) ←→ displays mutually	初期飲用 	還元1 (飲用) 通水量 5.1 ℓ/分
Purified Water			浄水 (薬・ミルク)	(Green) ←→ displays mutually	薬  ミルク 	浄水 (薬・ミルク) 通水量 5.1 ℓ/分
A C C I D I C W A T E R	Face-washing		酸性 (洗顔)	(Orange) ←→ displays mutually	洗顔 	酸性 (洗顔) 通水量 5.1 ℓ/分
	Dish-washing		酸性 (洗い物)	(Orange) ←→ displays mutually	洗い物 	酸性 (洗い物) 通水量 5.1 ℓ/分

Setting Time and Timer

The LCD screen shows like the right figure by pressing the Switching Display button, while in Standby or Range-Display state.

⇒ The range cannot be changed while setting time or timer.



[Setting Timer]

After setting the LCD screen to the Timer setting display, press the Hour (in minutes) and Minute (in seconds) buttons to adjust the timer and press the Start button to set the timer. Thereby, the Start light flashes as a count-down starts on the screen. A buzzer sounds when the count-down hits 0 second, at which the timer operation ends and the flashing of the start light goes off.



Timer setting display



Hour, Minute, and Start button (Control Panel)

- ⇒ Press the start button again to cancel timer.
- ⇒ The timer range is between 00 : 01 ~ 59 : 59.
- ⇒ Press down Hour (in minutes) or Minute (in seconds) buttons to fast-forward the count.

[Setting Time]

After setting the LCD screen to the Time setting display, press the Hour (in minutes) and Minute (in seconds) buttons to adjust the time and press the Start button to set the time. The set time would start in 0 second.



Time setting display



Hour, Minute, and Start button (Control Panel)

- ⇒ Time is displayed in 24 hours.
- ⇒ Press down Hour (in minutes) or Minute (in seconds) buttons to fast-forward the count.

Initial Usage display

The below figure may sometimes appear on the LCD screen, when any of the range buttons is pressed. Please follow the displayed message when shown.

毎日の使い始めは、1分以上
数日以上使用しない時、3分以上
洗い物レンズで流してください

Initial Usage display

Inflow Volume

During inflow, the inflow volume per minute will be displayed on the LCD screen.

還元強 (調理)

通水量 5.1 ℓ/分

Inflow Volume Display

⇒ Inflow Volume is the sum of the amount of intake and drainage water.

Accumulated Inflow Volume and Accumulated Used Time

The accumulated inflow volume and accumulated used time will be displayed in dark blue on the LCD screen for five seconds, by pressing the lit range button during inflow or while in range display state.

積算通水量 8200ℓ

積算時間 5600h

Accumulated Inflow Volume

- ⇒ It cannot be displayed by pressing the Acidic Water range buttons.
- ⇒ It cannot be measured accurately if the power is unplugged even when the instrument is not being used.
- ⇒ A unit for the accumulated inflow volume is in 100 Liters, and a unit for the accumulated used time is in 100 hours.

Error Display

During inflow, the LCD screen turns red and a buzzer sounds.







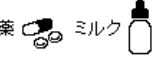


If the LCD screen turns red, it is a mechanical failure of the instrument. Please unplug the power of the instrument right away and contact your sales dealer for an assistance.

How to Process Water

[At first, please check the following.]

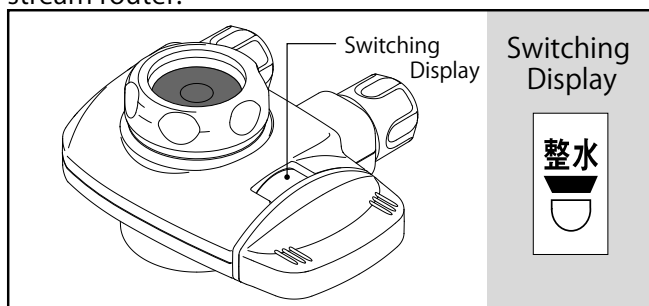
- ❶ Have you read "For Your Safety" at P.1?
- ❷ Have you connected all the hoses and plug the power cable properly?
- ❸ Have you checked that all buttons on the control panel works functionally?
- ❹ Have a Water Purification Cartridge and an Electrolytic Accelerator been installed correctly?
- ❺ If the instrument has not been used for some time, please check ❶~❹ listed above, and make sure it operates safely.

(1) Press the range button which you want to use.

		Display of the LCD screen	
K A N G E N S U I	KANGEN Intense	還元強 (調理) 通水量 5.1ℓ/分	mutually displays 煮物 アク抜き 
	KANGEN 3	還元3 (飲用) 通水量 5.1ℓ/分	mutually displays 飲用 お茶 コーヒー 
	KANGEN 2	還元2 (飲用) 通水量 5.1ℓ/分	mutually displays 飲用 炊飯 
	KANGEN 1	還元1 (飲用) 通水量 5.1ℓ/分	mutually displays 初期飲用 
Purified Water		浄水 (薬・ミルク) 通水量 5.1ℓ/分	mutually displays 薬 ミルク 
A c i d i c W a t e r	Washing Face	酸性 (洗顔) 通水量 5.1ℓ/分	mutually displays 洗顔 
	Washing Dishes	酸性 (洗い物) 通水量 5.1ℓ/分	mutually displays 洗い物 

※If the indicator of desired range button is already lit, then there is no need to press it again.

(2) Set the channel to **Processed Water** of the faucet stream router.



(3) open the faucet. Water substantially flows from the faucet, after 2 to 3 seconds of inflow.

		Display during infow	Sound during inflow	Condition of drainage
K A N G E N S U I	KANGEN Intense	還元強 (調理) 通水量 5.1ℓ/分	M e l o d y	Acidic Water flows out of the drain hose. ※Undrinkable.
	KANGEN 3	還元3 (飲用) 通水量 5.1ℓ/分		
	KANGEN 2	還元2 (飲用) 通水量 5.1ℓ/分		
	KANGEN 1	還元1 (飲用) 通水量 5.1ℓ/分		
Purified Water		浄水 (薬・ミルク) 通水量 5.1ℓ/分	No sound	It will be less, for water conservation.
A c i d i c W a t e r	Washing Face	酸性 (洗顔) 通水量 5.1ℓ/分	B U Z Z E R	Alkaline water flows out of the drain hose. ※Undrinkable
	Washing Dishes	酸性 (洗い物) 通水量 5.1ℓ/分		


※DO NOT DRINK Water out of the drain hose.

(4) After using the instrument, please set the channel to **Raw Water** or **Shower** on the faucet stream router.
※the instrument would go in Power-saving state automatically, after 4 minutes of use.

If inflow volume is excessive, It would sounds a buzzer and displays

《ご使用のレンジ》
蛇口を開じてください

in red on the LCD screen.

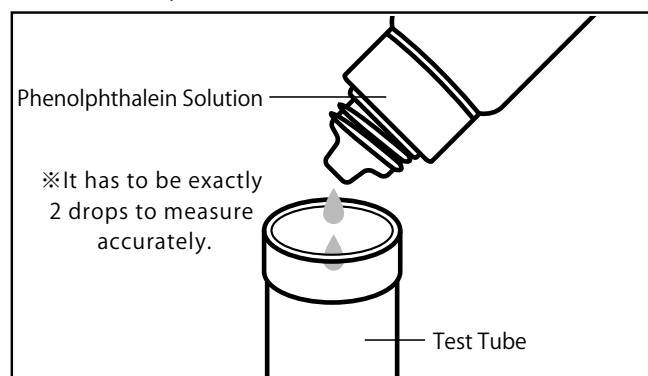
 White deposits floating on Antioxidant water might sometimes be found in your glass or container, and they are calcium contained in water, that are solidified and become visible. They are harmless when you drink; however, if you feel anxious about them, it can be avoided by lowering the Antioxidant water range level.

Method for measuring the pH

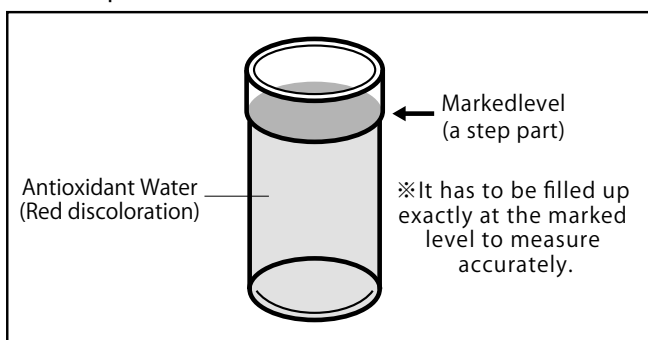
pH (potential Hydrogen) varies depending on inflow volume as well as seasonal changes in a quality of tap water.

Please perform this pH test for Antioxidant water at least once a month, ever after the initial installation, to make sure that the pH is in the drinkable range, 10 or less.

Put two drops of pH testing solution [Phenolphthalein solution], included in the box, into the test tube, also included.



Next, fill the test tube with produced Antioxidant water, upto the marked level.



To check the pH in Red discoloration of Antioxidant water, use the discoloration standard table for pH solution test, included in the box.

Around pH9.0~9.5 is suitable for drinking. Do not drink the water that has been used for testing.



Please make sure to cap the bottle of pH testing solution after use. Additionally, keep it out of the children's reach, or a fire.

How to Use Processed Water

Antioxidant Water

- There are four levels of Antioxidant Water in range. pH would increase in order of KANGEN 1, KANGEN 2, KANGEN 3, and KANGEN Intense.
- Around pH 9.0~9.5 is generally suitable for drinking; however, a person, new to drink Antioxidant water should start with much less pH contained water of small amount.
- To store Antioxidant water, please use a pet bottle, and keep it in a refrigerator. Do not keep it no more than two days for drinking propose.
- Do not drink the water with pH 10 or higher.
- We recommend to drink Antioxidant water about 500mL~1000mL per a day.

Acidic Water

- Face Washing mode is for washing face and cleansing.
- There are two levels of Acidic water in range. every time the button is pressed, the mode switches back to back between Face Washing and Dish Washing.
- To store Acidic water, please use a pet bottle, and keep it in a refrigerator. Please use it up within two days, for your sanitation.
- Do not drink Acidic water.

Purified Water

- Purified water is the filtered water, has not been electrolyzed, yet containing less impurities than tap water.
- It can be used for taking medicine and making milk for infant.
- To store Purified water, please use a pet bottle, and keep it in a refrigerator. Please use it up within two days, for your sanitation.



Do not press the Purified Water button while running water on the Antioxidant Water or Acidic Water mode. If inflow volume is excessive, It would sounds a buzzer and displays

浄水 (薬・ミルク)
蛇口を開けてください

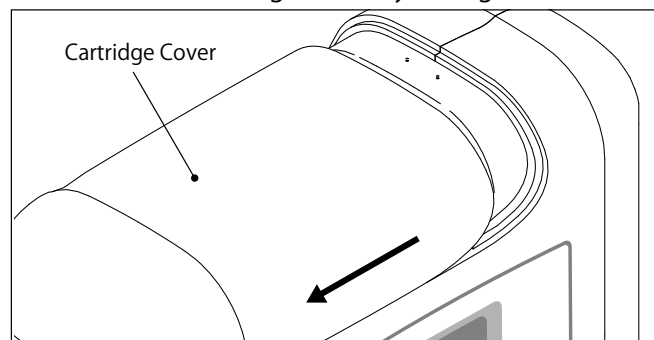
in red on the LCD screen.

To use any of the processed water, please make sure to read "For Your Safety" at P.1.

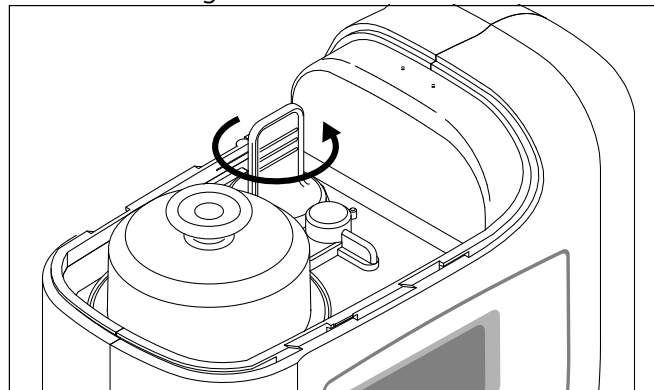
Annexing Calcium Lactate

※Calcium lactate is an auxiliary agent that accelerates electrolysis of water.

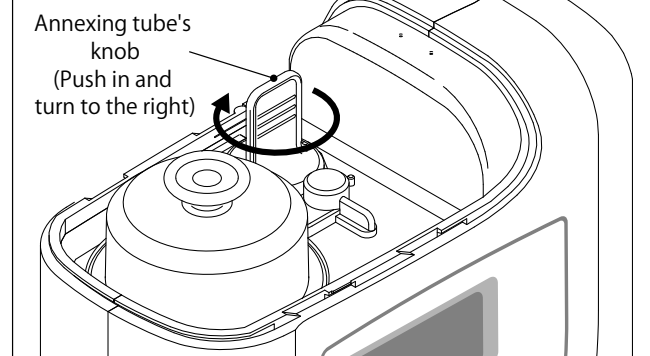
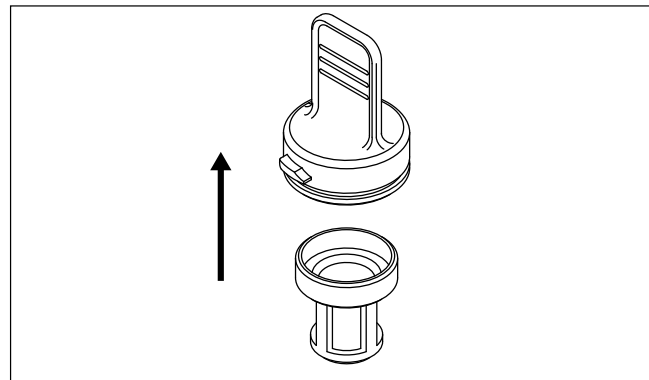
(1) remove the cartridge cover by sliding it to the left.



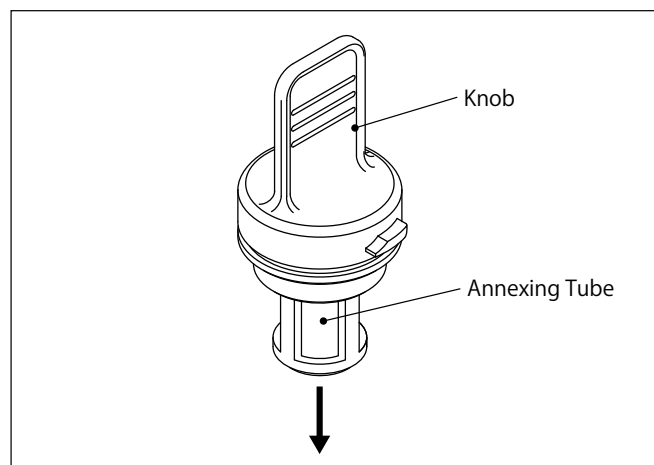
(2) Remove the annexing tube from the body of the instrument by turning its knob to the left. Please refer to the figure below.



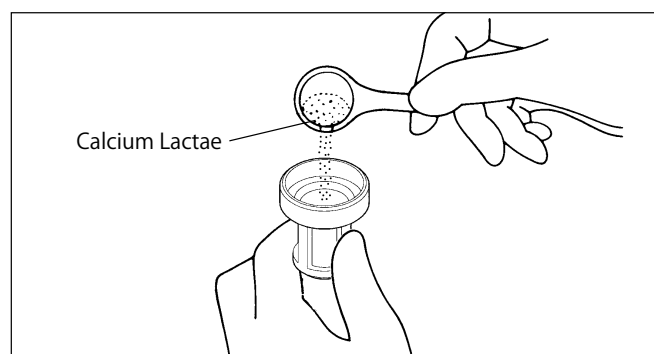
(4) Combine the annexing tube and its knob part, and place it back in the body of the instrument. At this point, please make sure that the O-ring is NOT twisted and calcium or any other deposits are NOT adhered to it. They can be a cause of water leakage.



(5) Place the cartridge cover back on the body of the instrument.



(3) Fill the annexing tube with the included calcium lactate, up to eighth of the container.



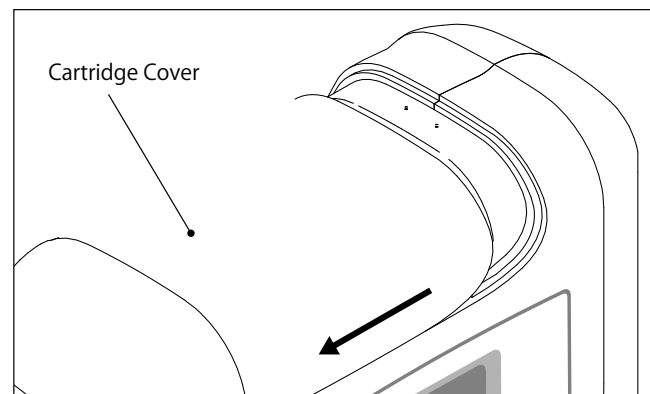
Replacing the Water Purification Cartridge.

When it's time to replace the water purification cartridge, the LCD screen displays in red.



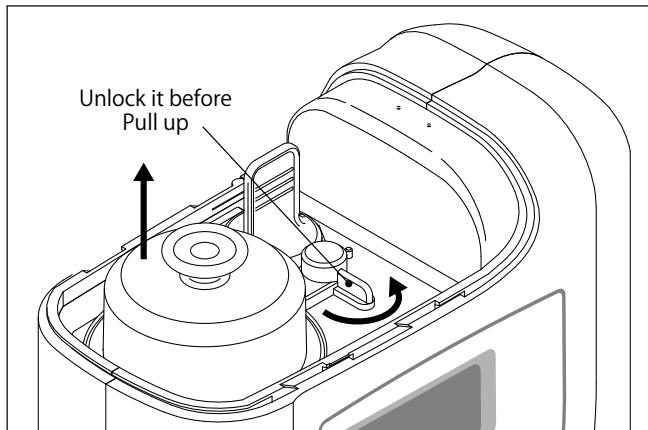
To replace the water purification cartridge, proceed in following order.

- (1) Close the faucet
- (2) Remove the cartridge cover by sliding it to the left.



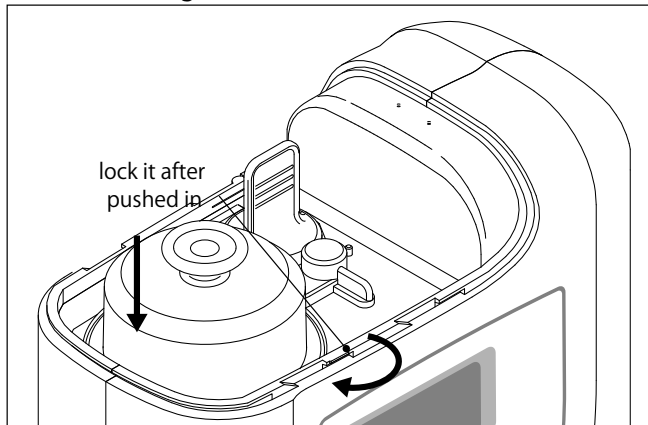
(3) Pull up the cartridge.

●Unlock before pulling it up.



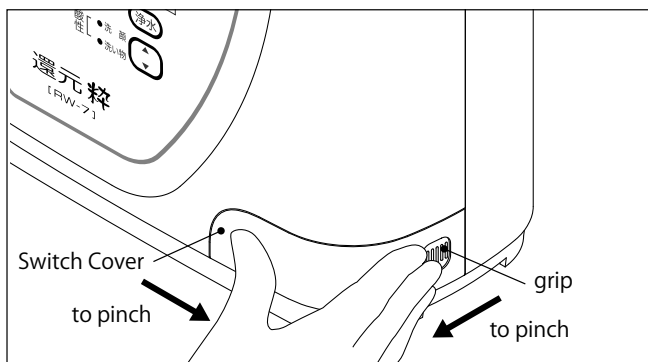
(4) place the new cartridge by pushing it in.

The water, spilled out from the old cartridge and accumulated inside the body of the instrument, should be drained completely, before placing a new cartridge.



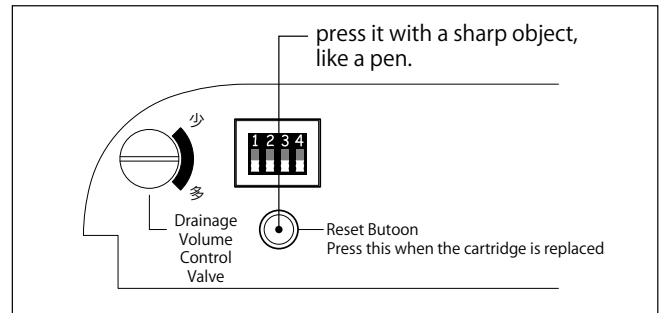
(5) Place the cartridge cover back on the body.

(6) Remove the the switch cover, located at the right bottom conner of the body, by pushing the grips in to slide it in forth or side while pinching the entire cover.



(7) check the range indicator is lit, and press the reset button, in the switch pocket of the instrument.

●The water purification cartridge replacement alert on the LCD screen will disappear.
(The accumulated inflow volume and accumulated used time will go back to 0).



(8) Place the swich cover back on the body.

(9) Run water for five minutes, before start drinking it again.

[When not being used for a long period of time]

(1) Close the faucet.

(2) Set the channel on Raw Water or Shower of the faucet stream router.

(3) Take out the Calcium lactate in the annexing tube, and wash the tube.

(4) Leave the power plugged. If power is unplugged, data of the accumulated inflow volume and accumulated used time will be lost.

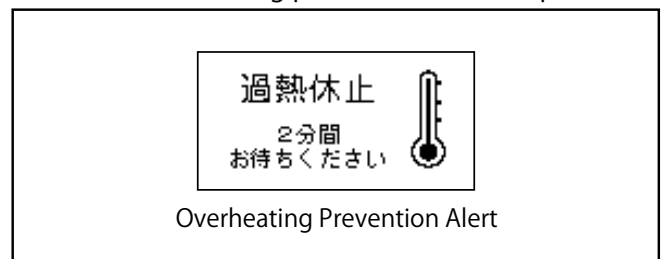
(5) When it is not being used for more than few days, please run water on Dish Washing mode of Acidic water range, for 3 minutes, before drink Antioxidant Water from the instrument.
Additionally, the LCD screen shows the initial usage display.

●when you replace the water purification cartridge, please call the toll-free number shown in the replacement alert on the LCD screen.

About Overheating Prevention

This instrument is equipped with a safety device for overheating prevention. The overheating prevention device would operates, when heat inside the instrument is generated by the Nonstop-production of Antioxidant water or Acidic water for a period of time.

the LCD screen displays the below figure in red, while the overheating prevention device operates.



In this case, please close the faucet right away and stop using the instrument. Thereby, the overheating prevention alert will disappear from the LCD screen. Although the instrument will be ready to use again in two minutes, it will be better to wait for re-using until the heat goes away sufficiently.

Maintenance and After-Sales Service

Maintenance

- Please let water flow on Dish Washing mode for a minute, prior to drinking Antioxidant water on KANGENSUI mode, at the beginning of everyday use. In addition to suppressing a deposition of calcium, it flushes out the water remaining inside water ways of the body.
- Do not throw water over the instrument or wash it with water. It may cause an electric leakage or shock.
- Do not use detergent, bleach, alcohol, benzene, thinner, cleanser, or insecticide of any kind, for cleaning. It may cause deformation, discoloration, or cracked of the instrument.
- Use a soft dry cloth to wipe the surface of the instrument.
- For maintenance of the faucet stream router, please also refer "Handling the Faucet Stream Router" at P.18.
- For disposal of old cartridge, hoses, faucet stream router, or other consumables, please follow your local rules.

After-Sales Service

- The water purification cartridge needs to be replaced periodically to maintain the quality of water.
Please contact your dealer, when the LCD screen displays the water purification cartridge replacement alert.
- To use this product properly, please listen to the instructions of our service personnel at the installation site.
- For disposal of the instrument itself, accessories, or other consumables, please follow your local rules.

Specifications

Classification : Home Water Processing and Purification Instrument

Product Name : KANGENSUI RW-7

Rated Voltage : AC200~240V

Rated Frequency : 50/60Hz

Rating Current : AC2A (max.3A)

Rated Electrolysis Voltage : DC50V (70Vmax.)

Electrode : Platinum-coated titanium plate

Electrode Lifespan : Nominal 4000 hours (Electrolysis time)

Processed Water Inflow System : 2-way system

Rated Inflow Volume (When using the standard water purification cartridge) :

Antioxidant Water 6.0 liter per minute (max.)

Acidic Water 6.0 liter per minute (max.)

Purified Water 7.0 liter per minute (max.)

Inflow Pressure : 0.05 ~ 0.7MPa

Weight (the body) : about 5kg

Power Cable length : Approximately 2.7m

Size (the body) : 271 (W) × 345 (H) × 138 (D) mm

Calcium Lactate Addition Device : inside the case annexing method.

※Calcium lactate is an auxiliary agent that accelerates electrolysis of water.

Water Purification Cartridge Filtration Capacity : 14 tons of the 13 substances that are subjected to remove, specified by JIS (Japanese Industrial Standards) ※1
Test results on JIS S 3201 (Tested filtration inflow : 4 liter per minute)

(It is capable of filtering 38 liter per day, for a year. Its capability may vary depending on the inflow volume, pressure, or quality of water.)

Electrolytic tank cleaning methods

: Double Auto-Change Cross-Line System

Power Circuit : Switching Regulator Control System

Unit Circuit Protection : 5A fuse

Unit Circuit Protection : Constant current control circuit

Unit Circuit Protection : Overheating Prevention Device

Unit Circuit Protection : Twin Safety Valve Function (Hot water inflow prevention, high water pressure inflow prevention)

This product may change

The specifications of this product may change for its improvement without a notice.

※1 JIS specified 13 substances

- | | |
|--------------------------------|---------------------------|
| ① Chlorine residual (chlorine) | ⑧ Trichlorethylene |
| ② Turbidity | ⑨ 1,1,1 - trichloroethane |
| ③ Chloroform | ⑩ Total trihalomethanes |
| ④ Bromodichloromethane | ⑪ CAT (pesticides) |
| ⑤ Dibromochloromethane | ⑫ 2-MIB (musty odor) |
| ⑥ Bromoform | ⑬ Lead solubility |
| ⑦ Tetrachlorethylene | |

Check List

■ Let's check one last time.

- Have you read this manual properly.
- Have you checked water is suitable before processed by the instrument. (See P.5)
- Is the power cable being plugged correctly.
- Are you using the instrument with the described power supply voltage (100V AC).
- Is the power cable NOT bent or damaged.
- Is the power cable NOT plugged to an octopus wiring (multiple tap).
- Does the used outlet have NO backlash.
- Have you NOT fixed the power cable with staples.
- Do you place the body on the instrument appropriately. (See P.11)
- Are the hoses NOT bent or twisted. Are hoses NOT wired or placed vertically higher than the body of the instrument.
- Do you understand what to do if you accidentally drop the instrument in water. (See "for your safety" P.1)
- Have you properly read the precautions for drinking KANGENSUI. (See P.22)
- Have you properly read the precautions for drinking Acidic Water. (See P.22)
- Do you understand how to save KANGENSUI. (See P.22)
- Have you properly adjusted pH (potential Hydrogen). (See P.22)




Is this a mechanical failure ? Check Here.

Is this a mechanical failure ? Check Here.

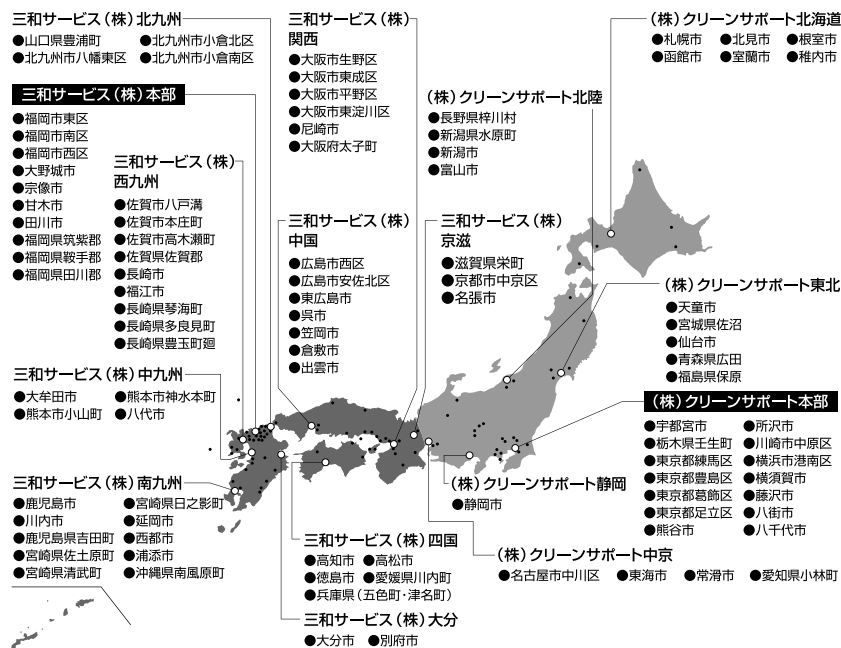
Before contacting your dealer for a repair service, please check the followings to make sure you need an assistance.

Despite of following all the listed procedures below, a problem cannot be resolved, or a problem has been confirmed to be an failure, please stop all operations of the instrument, unplug the power, and contact your dealer or our customer support dial for an assistance. Do not try to repair or disassemble on your own.

Condition	The Things to check	Procedure
No response to a pressed button, No actions on the LCD screen.	<ul style="list-style-type: none"> ● Is the power cable plugged to an outlet properly? ● Is the fuse, located in the bottom of the body, being blown? 	<ul style="list-style-type: none"> ● Plug the power properly. ● If the fuse has been blown, contact your dealer or our service counter for help. ● Unplug the power once, and wait about 10 seconds to plug it in again.
Water does not flow out from the faucet at all. The stream is too weak.	<ul style="list-style-type: none"> ● Are the hoses being connected properly? ● Is there a bent or twist on any of the hoses? ● Is the faucet opened enough to create an adequate pressure? ● Is there a water outage or frozen pipe on your home water system? ● Is there a clogging on the water purification cartridge? (Due to a quality of water, it may last shorter than its designed capacity) ● Is there an inflow of 50°C or higher water into the instrument? 	<ul style="list-style-type: none"> ● Connect the hoses properly (see P.17) ● Straighten the hoses. ● It cannot be used with the water pressure lower than 0.05MPa. ● Wait a use of the instrument until a water outage or frozen pipe being resolved. ● Replace the water purification cartridge (see P.23) ● Do not use hot water. Use the water, temperature below 50°C.
Water leakage from a hose connector.	<ul style="list-style-type: none"> ● Is a connecting nut attached properly? 	<ul style="list-style-type: none"> ● Attach the connecting nut properly (see P.17)
Low pH	<ul style="list-style-type: none"> ● Is there a bent or twist on any of the hoses? ● Is the drain hose routed higher than the body of the instrument? ● Is the inflow volume being too much? ● Is the drainage flow volume set too low? 	<ul style="list-style-type: none"> ● Straighten the hoses. ● Route the drain hose lower than the body of the instrument. ● Adjust the faucet to lower the inflow volume. ● Adjust the drainage volume regulating valve to drain more.
The water has unpleasant odor or taste.	<ul style="list-style-type: none"> ● Is there a long period of time since the instrument last being used. ● Is pH of the water too high? ● Is the instrument being used for an underground water or well water? ● Is the water purification cartridge being used more than its designed capacity? 	<ul style="list-style-type: none"> ● let water flow on dish washing mode for a minute, at the eginning of everyday use. Also do the same for three minutes, when it is not being used for more than few days. ● Use a lower range level of Antioxidant water. ● Use a tap water for the instrument. ● Replace the water purification cartridge (see P.23)

Condition	The Things to Check	Procedure
<p>There are white deposits floating on Antioxidant water in a glass or container.</p>	<ul style="list-style-type: none"> ●Refer the right column. 	<ul style="list-style-type: none"> ●They are calcium contained in water, that are solidified and become visible. They are harmless when you drink; however, if you feel anxious about them, it can be avoided by lowering the Antioxidant water range level.
<p>The LCD screen displays</p> <div data-bbox="121 658 338 768" style="border: 1px solid black; padding: 2px;"> <p>《ご使用のレンジ》 蛇口を開じてください</p> </div> <p>in red (instead of indicating the inflow volume, it says "close the faucet")</p>	<ul style="list-style-type: none"> ●Refer the right column. 	<ul style="list-style-type: none"> ●Adjust the faucet to lower the inflow volume.
<p>The LCD Screen</p> <div data-bbox="121 1055 338 1162" style="border: 1px solid black; padding: 2px;"> <p>カートリッジ 交換 </p> </div> <div data-bbox="121 1173 338 1281" style="border: 1px solid black; padding: 2px;"> <p>カートリッジ交換後 リセットボタンを 押して下さい </p> </div> <p>displays In red.</p>	<ul style="list-style-type: none"> ●Refer the right column. 	<ul style="list-style-type: none"> ●The water purification cartridge needs to be replaced (see P.23)
<p>The LCD Screen</p> <div data-bbox="121 1413 338 1523" style="border: 1px solid black; padding: 2px;"> <p>過熱休止 2分間 お待ちください </p> </div> <p>Displays in red.</p>	<ul style="list-style-type: none"> ●Refer the right column. 	<ul style="list-style-type: none"> ●The heat inside the instrument is high. Stop processing the water for more than 2 minutes. (see P.24)
<p>Water drains out from the safety valve of the faucet stream router.</p>	<ul style="list-style-type: none"> ●Is the inflow water pressure too high? ●Is the inflow volume too much? ●Is there a clogging on the water purification cartridge? (Due to a quality of water, it may last shorter than its designed capacity) ●Is there a bent or twist on any of the hoses? 	<ul style="list-style-type: none"> ●It cannot be used with the water pressure higher than 0.7MPa. ●Adjust the faucet to lower the inflow volume. ●Replace the water purification cartridge (see P.23) ●Straighten the hoses.

全国に展開する三和のサービス網



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