

People, Life, Water

**TRIM**

NIHON TRIM CO.,LTD.

*Direct Tap Connection Continuous  
Antioxidant Water System*

# TRIM ION TI-9000 INSTRUCTION MANUAL



Thank you for purchasing the "TRIM ION TI-9000" Antioxidant Water System.  
Be sure to read this Manual before using the device, and be sure to operate the device properly.

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- The precautions noted here have been divided into “⚠ Warning” and “⚠ Caution” categories. The “Warning” category contains precautions where improper operation of the device may have serious effects such as death or serious injury.

However, even precautions that have been included in the “⚠ Caution” category may lead to serious consequences in some circumstances. Please follow all of the guidelines in both categories, since they both include important safety information.

- Nihon Trim Co., Ltd., cannot accept responsibility for any device damage or accidents that may result from improper use or installation of this product.
  - After reading this instruction Manual, please store it so that it is easily accessible to anyone using the device.
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### **Antioxidant Water (Reduced water)**



Drinking antioxidant water can be effective for chronic diarrhea, poor digestion, abnormal gastrointestinal fermentation, excessive gastric acid, and when used as an antacid.

### **Acidic water**







Acidic water can be used as a weakly acidic astringent (skin cleanser).

\* NIHON TRIM refers to alkaline ionized water as electrolyzed reduced water, and astringent water as electrolyzed oxidized water. This Instruction Manual refers to these substances as antioxidant water and acidic water, respectively.

Be sure to read the content in this manual that is labeled with either of the following warning marks.

Mark	Danger level
 <b>Warning</b>	Ignoring this warning and improperly operating the device may result in death or serious injury. May lead to death or serious injury. (These warnings are marked in this manual with a <input type="checkbox"/> )
 <b>Caution</b>	Ignoring this warning and improperly operating the device may result in injury. (These warnings are marked in this manual with a <input type="checkbox"/> )

### Explanation of identification marks

Mark	Title	Meaning
	<b>General</b>	General warning against unspecified hazards.
	<b>General</b>	Notice used for general prohibition.
	<b>General</b>	Notice used to prompt user for unspecified general action.
	<b>Do not use in location that is exposed to water such as a bath or shower.</b>	Notice used to prohibit the use of equipment that is not waterproof under high-moisture conditions such as in bathrooms, where current leakage may lead to an accident.
	<b>Do not disassemble.</b>	Notice used to prohibit disassembly of the device when doing so may lead to an electrical shock hazard.
	<b>Unplug</b>	Notice used to instruct the user to unplug the equipment when it is broken or when there is the danger of a lightning strike.

# Safety warnings







Always read and follow the warnings described below.









## Warning

	<p>Consider the following cautions when drinking antioxidant water.</p> <ol style="list-style-type: none"><li>(1) Avoid taking medicine with antioxidant water. Take medicine with purified water. (Effect and amount of medicine is normally measured and determined under the condition of normal drinking water).</li><li>(2) People suffering from achiorhydria should not consume antioxidant water.</li></ol>
	<p>Consult a physician or pharmacist before drinking antioxidant water if you receive treatment from them.</p>
	<p>Do not use water that is not appropriate for drinking. Doing so may have a negative impact on your health.</p>
	<p>Never attempt to modify, disassemble, or repair this device on your own. Doing so may result in a fire or electrical shock. NIHON TRIM CO., LTD., cannot accept responsibility for any resulting accident.</p>
	<p>Do not use this device in locations characterized by excessive moisture or humidity such as bathrooms. In addition, do not expose the device directly to water or submerge it. Doing so may cause an electrical shock.</p>
	<p>Do not insert or remove the device's plug from an electrical outlet when your hands are wet. Always remove the plug from the outlet when cleaning the device. Failure to do so may result in an electrical shock.</p>
	<p>Follow these steps when the device has been accidentally submerged in water to avoid an electrical shock:</p> <ol style="list-style-type: none"><li>(1) Remove the plug from the outlet.</li><li>(2) Remove the device from the water.</li><li>(3) Make a request to have the unit repaired at either a retailer or at NIHON TRIM CO., LTD.</li></ol>

 **Caution**

	<p>Install the device so that it is in a horizontal position. Do not install the device in an unstable location such as on the top of an unstable table or in an inclined location. Doing so may cause the device to fall and result in injury.</p>
	<p>Do not install the device so that it is exposed to direct sunlight or near a gas burner, heater, or portable water heater. Doing so may result in damage to the device.</p> <p>Do not connect the device directly to a hot water heater. Doing so may result in device damage or an accident.</p> <p>Do not place objects on top of the device. Doing so may lead to device damage or an accident.</p>
	<p>If you intend to mount the device on a wall, always request that a retailer or contractor perform the installation. The device may fall from its mount when improperly installed, causing an accident.</p>
	<p>Do not bend or twist any of the hoses. Doing so may cause the hoses to leak water. In particular, do not place or coil the drain hose in a location that is higher than the device. Doing so may interfere with the device's ability to properly electrolyze water.</p> <p>Do not connect the device to a power supply with a voltage other than the one indicated (200 – 240 V AC). Doing so may result in fire or electrical shock.</p> <p>Avoid using staples or similar objects to hold the power cord in place. Doing so may result in damage to the power cord, electrical shock, or fire.</p> <p>Do not connect power cords for multiple electrical appliances to a single outlet. Doing so may result in excessive heat generation and lead to a fire.</p>
	<p>When using the device for the first time each day, allow water to run through the device at the washing up setting for about 1 minute before drinking. When the device has not been used for several days or more, allow water to run through the device at the washing up setting for about 3 minutes before drinking.</p> <p>People drinking Antioxidant water from the device for the first time should initially consume a small amount at about pH 9. Subsequently the pH and quantity of water consumed can be adjusted in view of how the drinker feels. In some cases consumption may have a negative impact on your health. A pH level of between 9.0 and 9.5 is suitable for drinking.</p> <p>To store Antioxidant water, place it in a tightly sealed container and keep it in a refrigerator. Drink stored water within 2 days. Failure to do so may have a negative impact on your health.</p>
	<p>Do not drink the following types of water. Doing so may have a negative impact on your health.</p> <ol style="list-style-type: none"> <li>(1) Water with a pH of 10 or higher. Measure the pH of the water you are drinking periodically.</li> <li>(2) Acidic water.</li> <li>(3) Water into which a pH measurement fluid has been introduced.</li> <li>(4) Water discharged from the drain hose.</li> </ol> <p>Do not use water from the device in tanks for goldfish or other tropical fish. The fish may die as a result of the changed environment.</p>

## Safety warnings (continued)

	<p>Do not use aluminum containers that have low resistance to alkalines or copper containers that have low resistance to acids. Doing so may result in damage to the container.</p>
	<p>Contact a retailer if the water generated by the device exudes any unusual odors.</p> <p>Take the following cautions when using pH measurement fluid.</p> <ol style="list-style-type: none"> <li>(1) Do not put the fluid in your eyes or drink it. If you mistakenly drink the fluid or if it gets into your eyes, drink a large amount of water or flush your eyes with water and consult a physician. Failure to do so may have a negative impact on your health.</li> <li>(2) Always close the pH measurement fluid container tightly and store it out of the reach of children.</li> <li>(3) Do not place the fluid close to an open flame. Doing so may cause it to ignite.</li> </ol>
	<p>Use only the recommended calcium. Failure to do so may compromise the safety of the device.</p> <p>Do not expose the device to water or wash it. Doing so may result in a current leak or an electrical shock.</p> <p>Do not cover the air vents with your hand or other objects. Do not insert objects into the air vents. Doing so may result in an electrical shock or fire.</p> <p>Do not cover the device's water spout. Doing so may result in a water leak or accident.</p> <p>Do not use benzene, thinners, cleansers, insecticides, or similar substances when performing maintenance on the device. Doing so may result in deformations in the device's shape, changes in its color, or cracking.</p>
	<p>When dust has collected around the outlet, remove the power cord's plug and wipe it clean. Failure to remove collected dust may result in a fire.</p>
	<p>Do not damage, destroy, modify, forcefully bend, pull, twist, or bundle the power cord. Placing heavy objects on top of the cord, inserting it into narrow spaces, or modifying it may damage the cord and result in a fire or an electrical shock.</p> <p>Do not use the device when its power cord or plug have been damaged, or when the plug is not firmly inserted into an electrical outlet. Doing so may result in an electrical shock, short, or fire.</p>
	<p>Consult a retailer when using a device that has not been used for an extended period of time.</p>

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# Precautions

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- This device is designed for home use.
- Do not use the following types of water with the device. Doing so may result in damage to the device.
  - (1) Excessively murky water.
  - (2) Very hard water
  - (3) Saline water.
  - (4) Water containing excessive red rust.
  - (5) Water of more than 60°C.

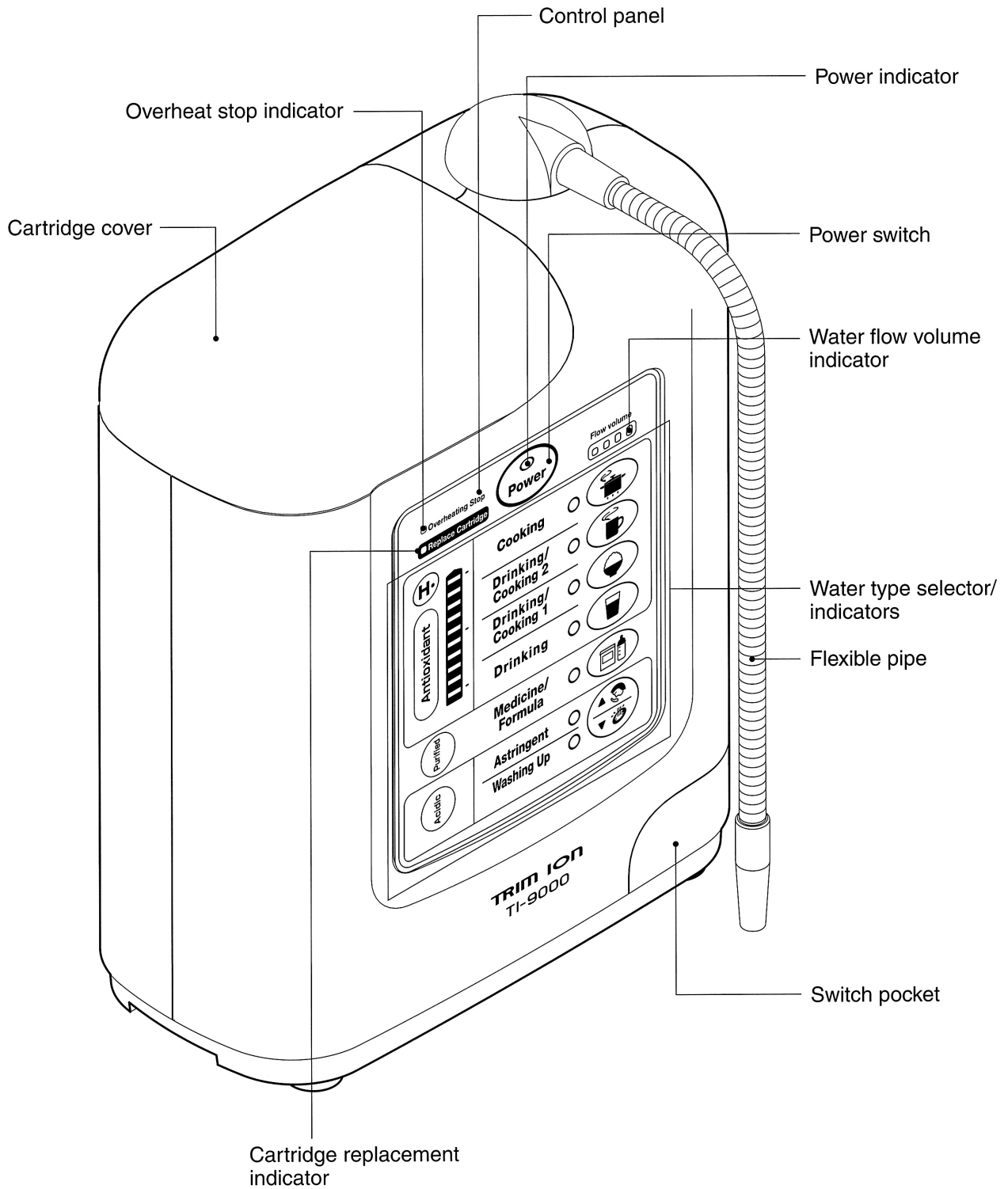


Before using the device, be sure to carefully read the “Safety warnings” section for information about precautions relating to how to use it.

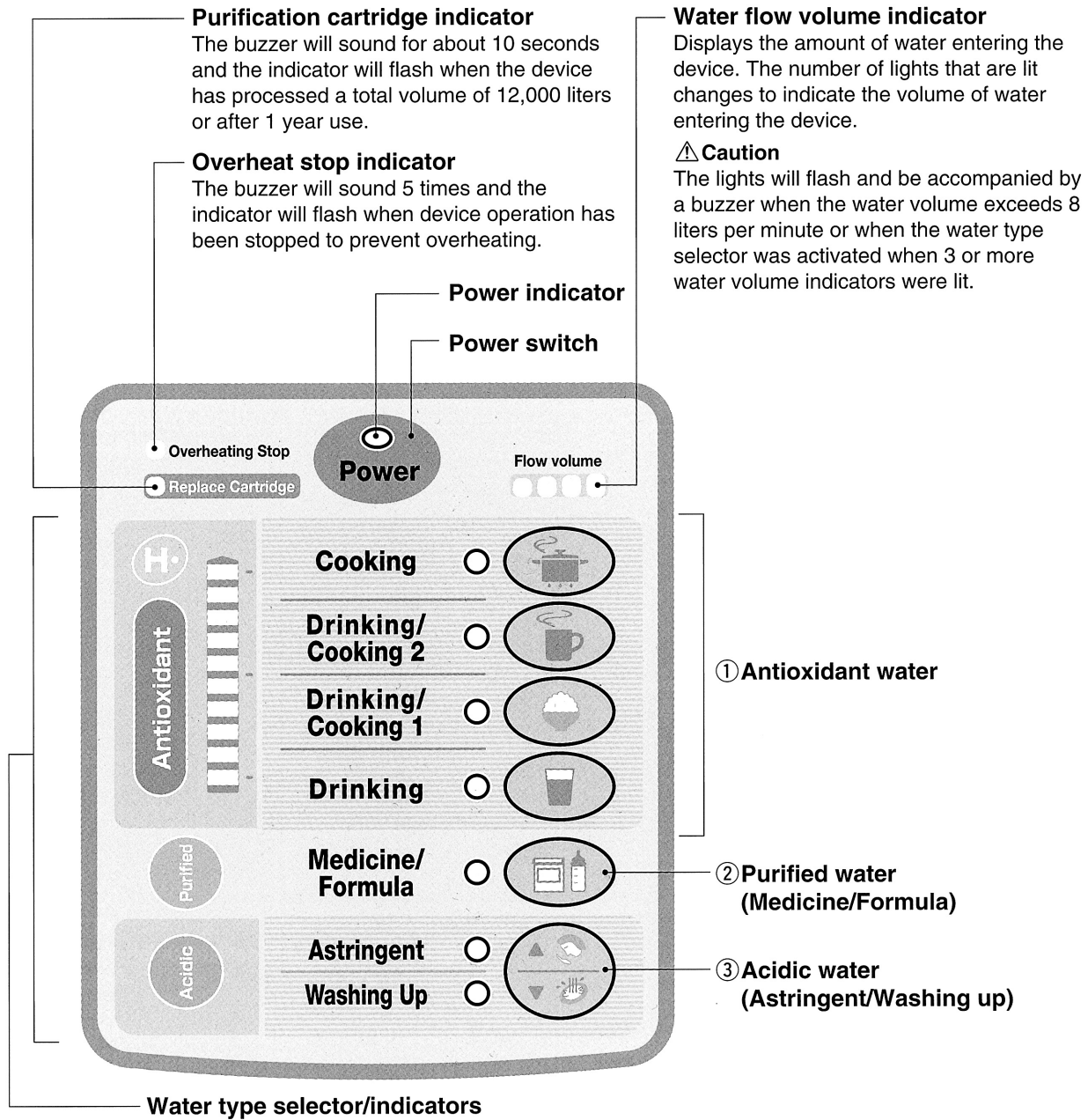


# Part names

Front



Names and functions of control panel parts



① Antioxidant water

Press the switch to select the appropriate Antioxidant water use.  
The concentration of antioxidant water increases in the following order: Drinking → Drinking/cooking (1) → Drinking/cooking (2) → Cooking.

② Purified water (Medicine/Formula)

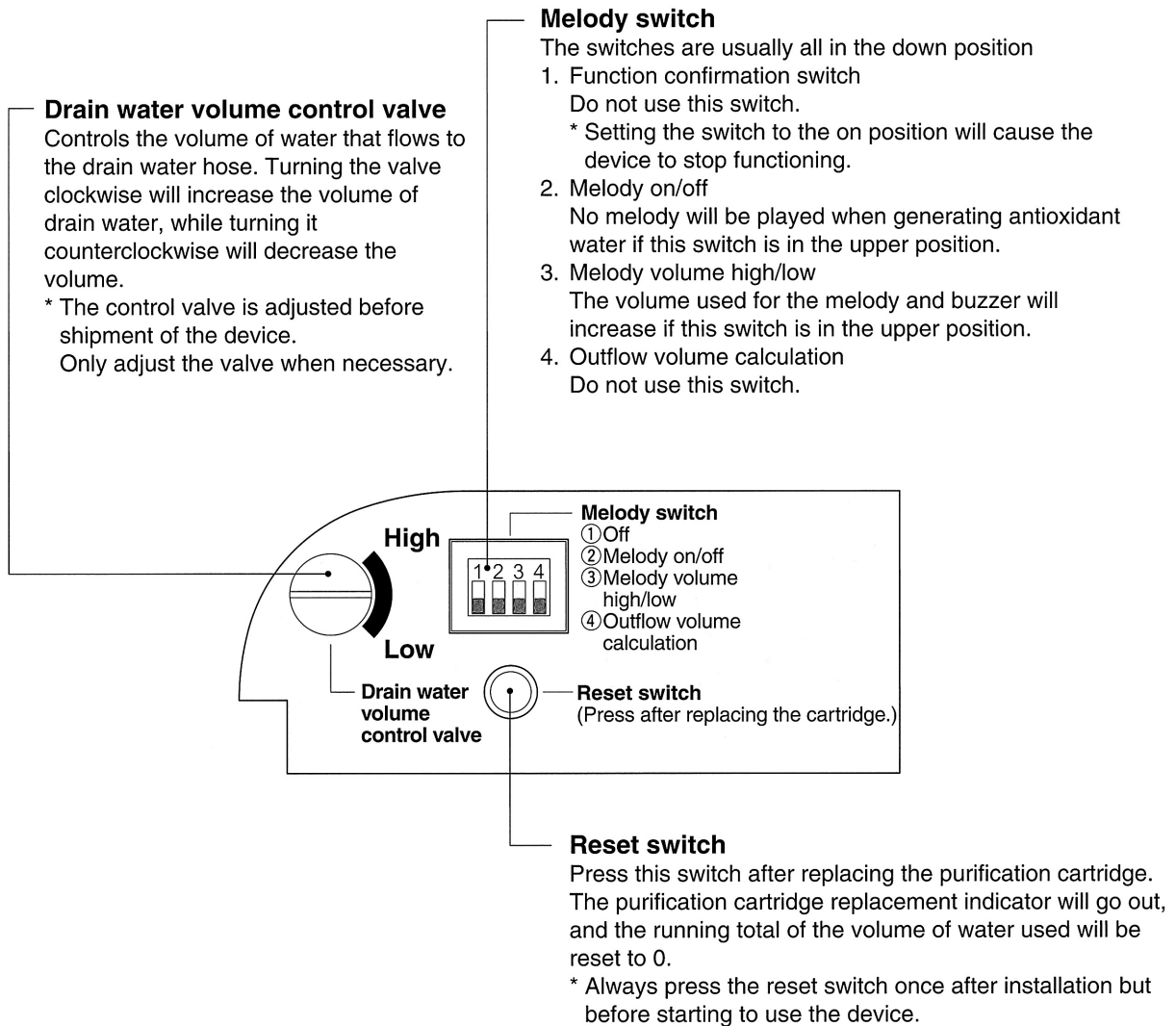
Removes the chlorine from tap water.

③ Acidic water (Astringent/Washing up)

Press the switch corresponding to how you will use the acidic water. The concentration of acidic water increases in the following order: Astringent → Washing up.

## Names and functions of switch pocket parts

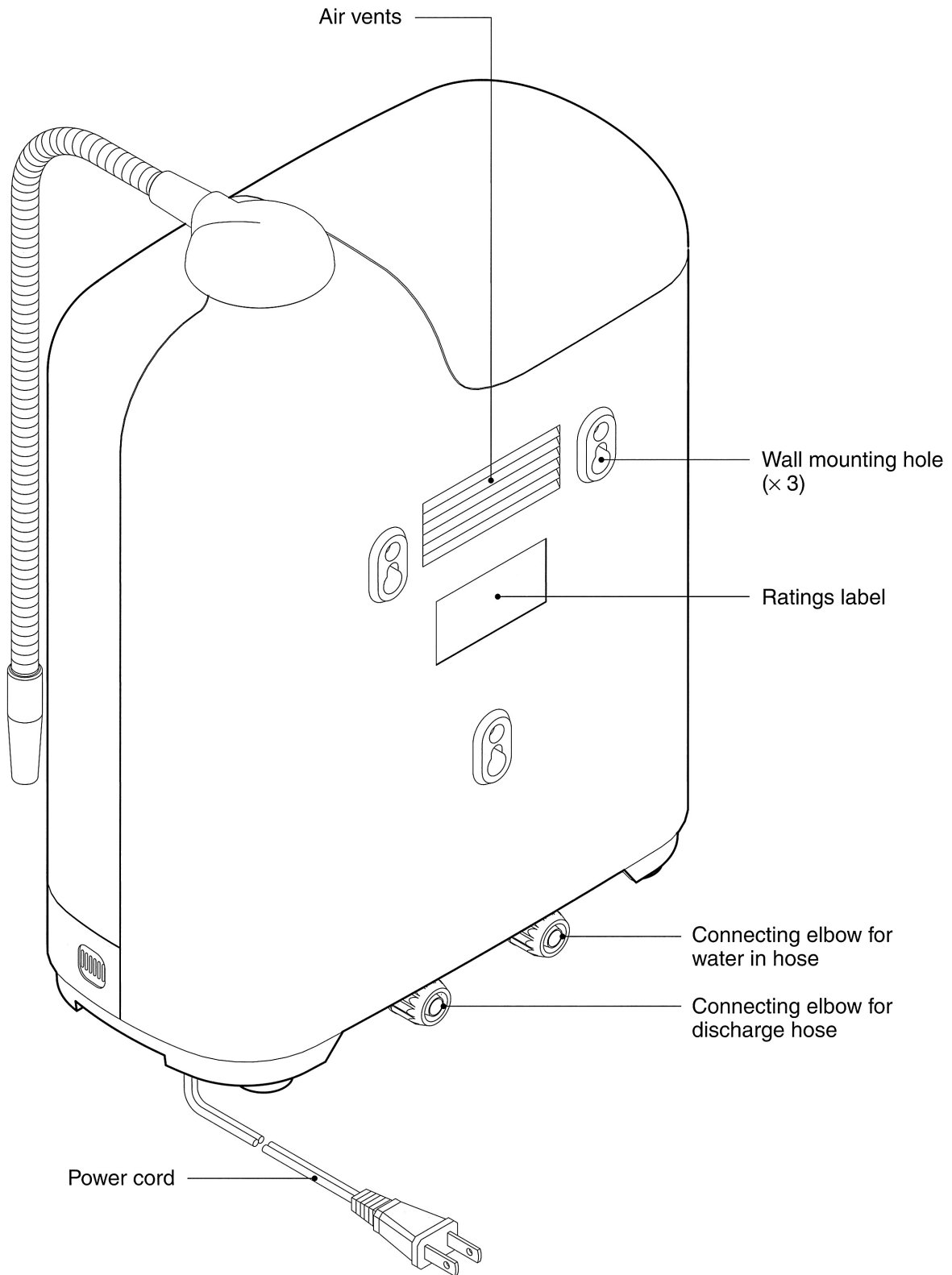
Remove the switch cover to access the switches (the cover can be removed by sliding it to the front).



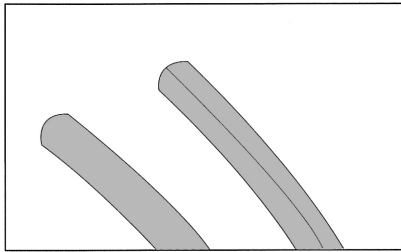
**Part names (continued)**

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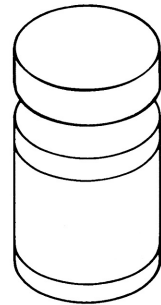
**Rear**



# Accessories



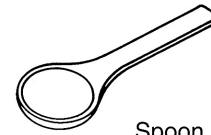
Water in hose (with the blue line)  
Drain water hose



Calcium lactate

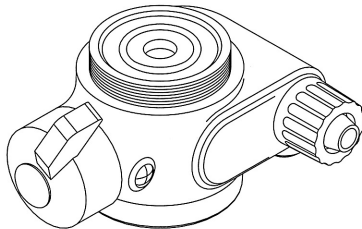
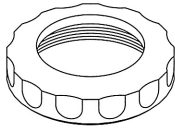


Phenolphthalein



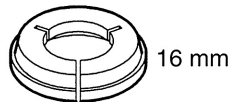
Spoon

Fastening cap



Branch tap

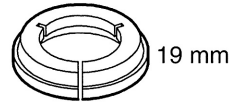
**Set A**  
C-ring



16 mm



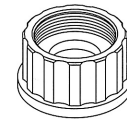
17.5 mm



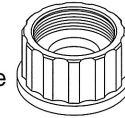
19 mm

**Set B**

Aerator adapter (for externally threaded types)



For small size



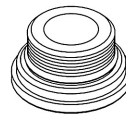
For large size



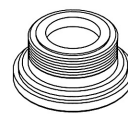
Common washer

**Set C**

Aerator adapter (for internally threaded types)

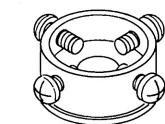


For small size

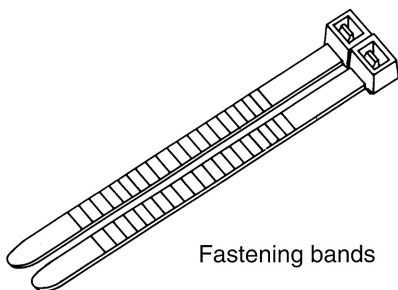


For large size

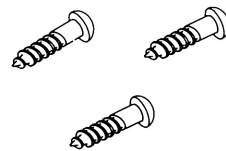
**Set D**



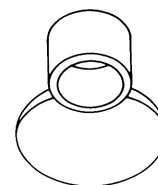
Screw-fastened adapter



Fastening bands



Wall mounting screws



Suction cup

# Installing the device

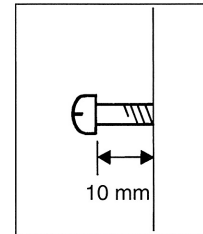
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1. Install the device after checking the following requirements.

- The device must be installed on a level, stable surface.
- Do not install the device in any of the following locations.
  - (1) Locations where flame is used, or near any other high-temperature area (60°C or higher).
  - (2) Locations where humidity or dust are excessive.
  - (3) Locations where the device may come into contact with water such as bathrooms or areas exposed to the weather.
  - (4) Locations exposed to direct sunlight or near a gas burner, heater, or portable water heater.

When wall-mounting the device:

- (1) Use the included wall-mounting screw hole guide sheet to determine proper positioning for the holes.
  - (2) Screw the included wall-mounting screws into the wall at the three positions determined in Step (1).
  - (3) Remove the seal from the wall-mounting holes on the rear of the device and attach the device to the wall-mounting screws.
- Verify that the wall onto which the device will be installed is strong enough to support its weight (5 kg).



2. Connect the power cord to an electrical outlet (200 – 240 V AC, 50/60 Hz).

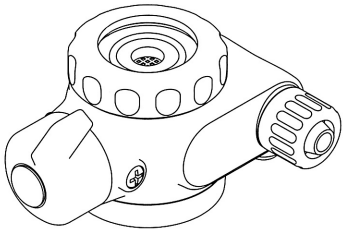
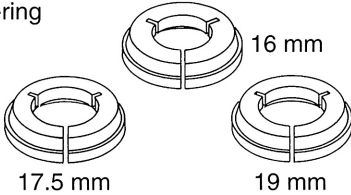
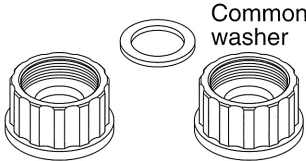
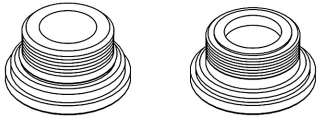
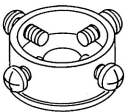


Install the device only after carefully reading the “Safety warnings” section.

# Installing the branch tap

## Preparing the branch tap

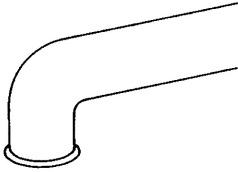
There are 8 types of adapters included for use when installing the branch tap. Select the best adapter based on type of faucet you are using.

 <p>Branch tap</p>	<p><b>Set A</b> C-ring</p>  <p>17.5 mm      16 mm      19 mm</p>	<p><b>Set B</b> Aerator adapter (for externally threaded types)</p>  <p>Common washer</p> <p>For small size      For large size</p>
	<p><b>Set C</b> Aerator adapter (for internally threaded types)</p>  <p>For small size      For large size</p>	<p><b>Set D</b></p>  <p>Screw-fastened adapter</p>

## Checking the faucet type

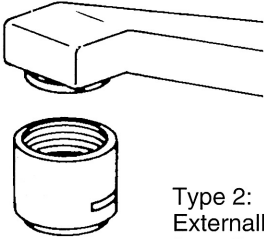
Check which of the following types corresponds to the faucet you will be using.

**Type-1**  
Faucet pipe diameter (16 mm, 17.5 mm, 19 mm)



Type 1:  
Type with thick end.  
(Use Set A. See p.9.)

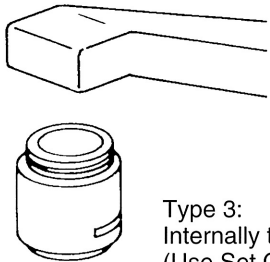
**Type-2**  
Type where the threads appear on the outside of the pipe when the aerator is detached.



Aerator

Type 2:  
Externally threaded type.  
(Use Set B. See p.11.)

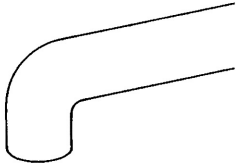
**Type-3**  
Type where the threads are on the inside of the pipe when the aerator is detached.



Aerator

Type 3:  
Internally threaded type.  
(Use Set C. See p.13.)

**Type-4**  
Faucet that is rounded at the end.



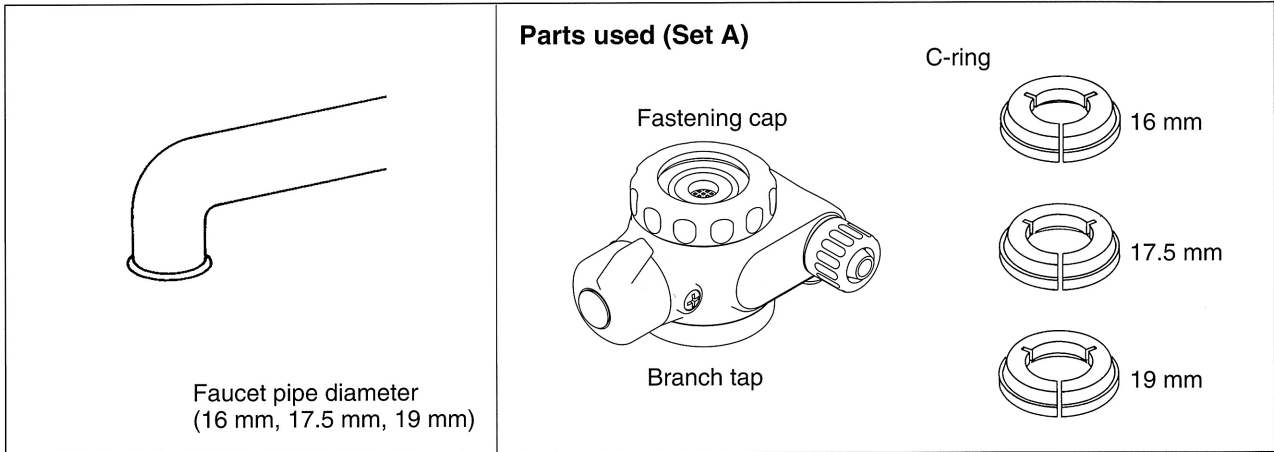
Type 4:  
Type with straight end.  
(Use Set D. See p.15.)

For faucets that do not correspond to the types outlined above, consult a retailer or NIHON TRIM CO.,LTD.

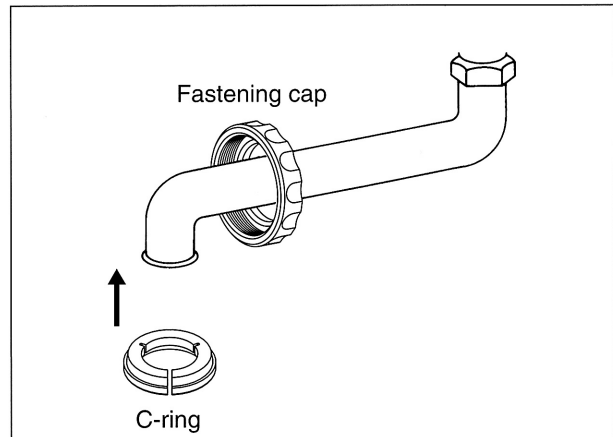
## Installing the branch tap (continued)

### Type-1

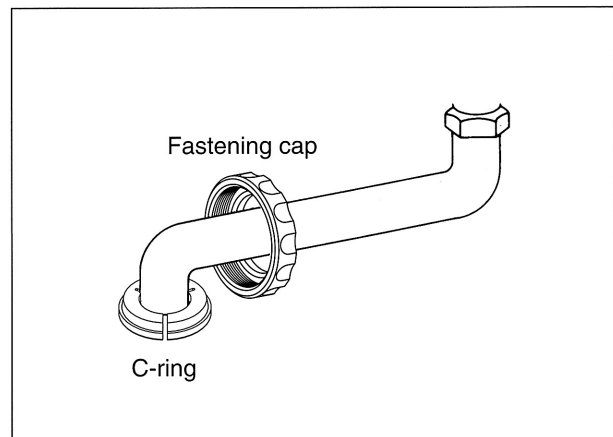
Type that thickens at pipe end.



- 1 Place the fastening cap around the faucet.
  - Take care not to position the cap in the wrong orientation.

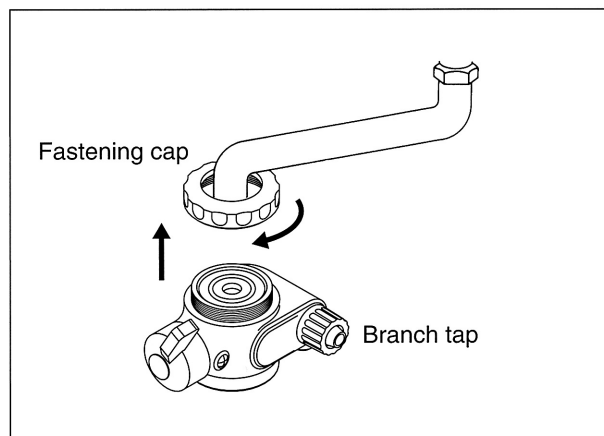


- 2 Attach the C-ring to the end of the faucet.
  - The C-ring is easier to install when you pull the ring apart at the split.
  - Take care not to position the ring in the wrong orientation.



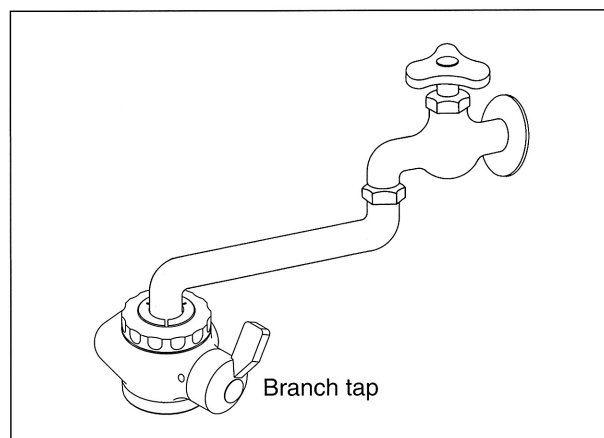


- 3** Securely tighten the fastening cap while pushing up on the branch tap so that the washer fits securely against the end of the faucet.



- 4** You have attached the branch tap.

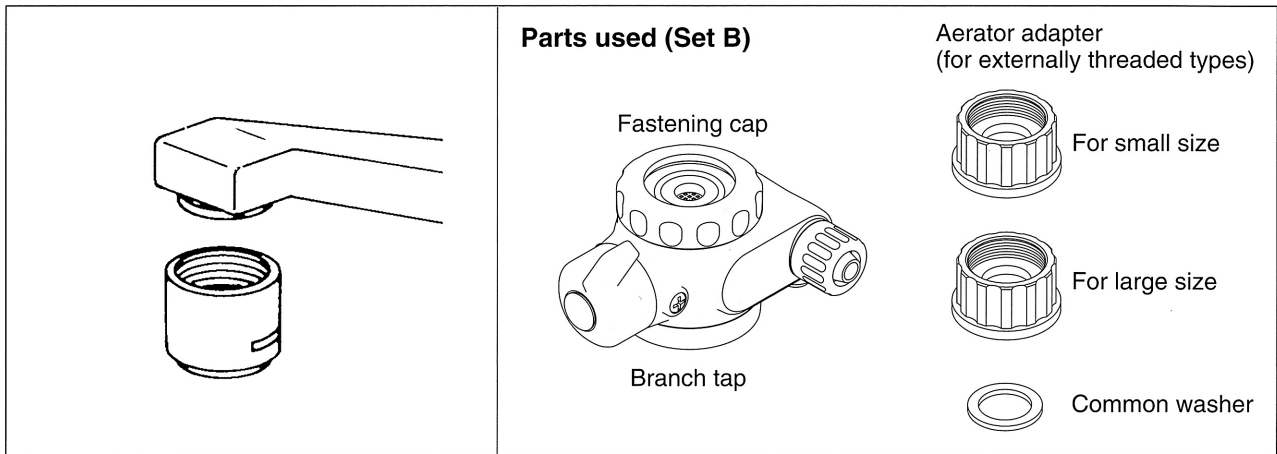
- See "Connecting hoses" on p.17 for more information about how to connect the hoses.



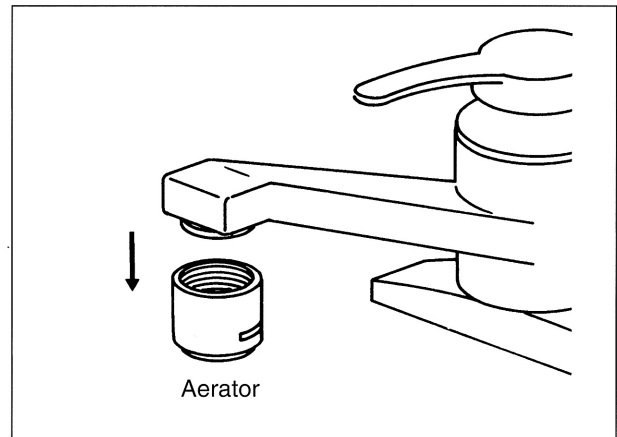
## Installing the branch tap (continued)

### Type-②

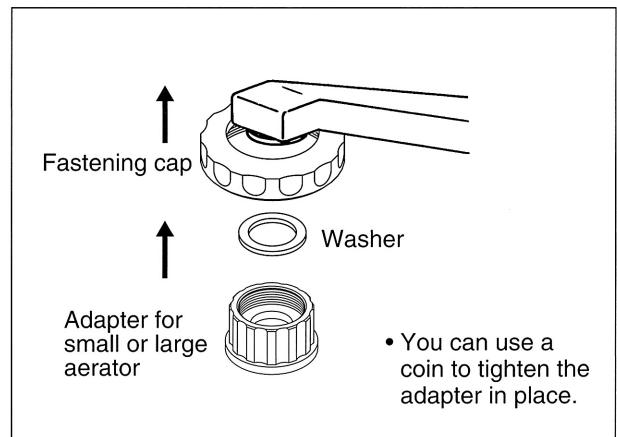
Type where the aerator can be removed (externally threaded type).



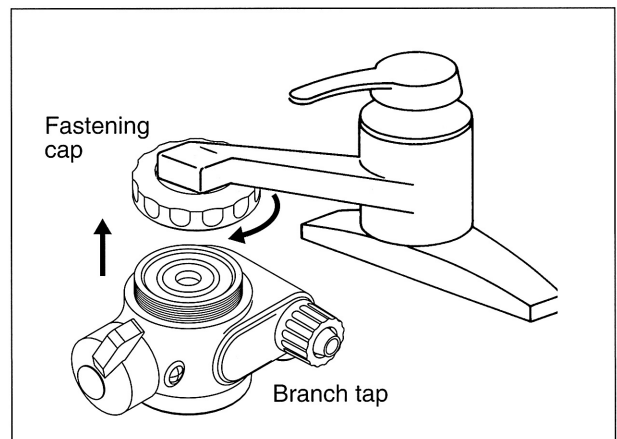
- 1 Remove the aerator from the end of the faucet.



- 2 Place the fastening cap around the faucet.
  - Take care not to position the cap in the wrong orientation.
- 3 Attach the small size adapter after you have removed the aerator.
  - Use the large size if you have difficulty attaching the small size.

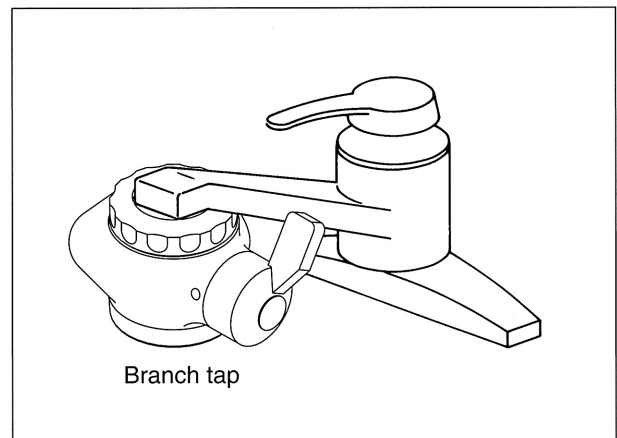


- 4** Securely tighten the fastening cap while pushing up on the branch tap so that the washer fits securely against the end of the faucet.



- 5** You have attached the branch tap.

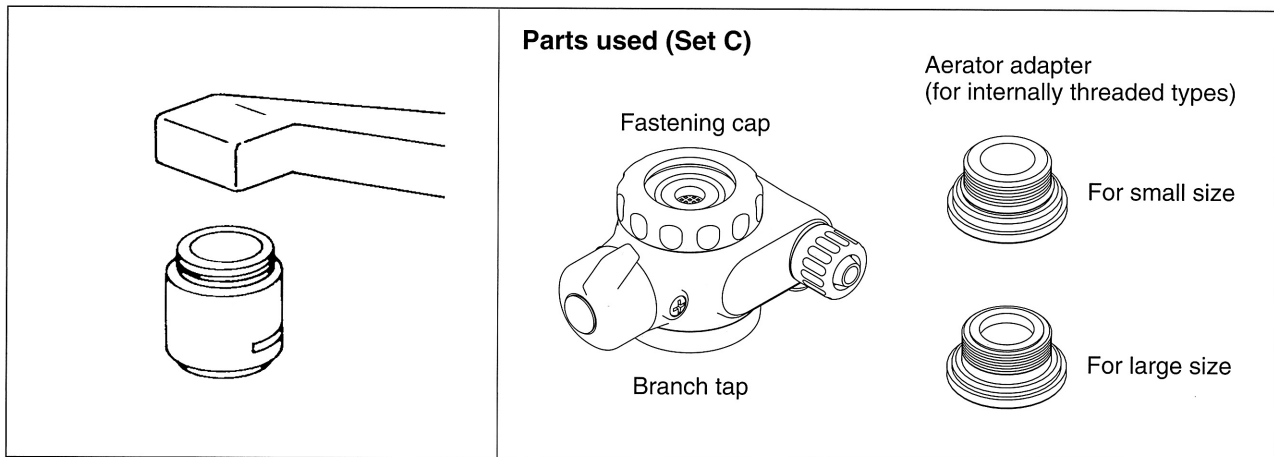
- See "Connecting hoses" on p.17 for more information about how to connect the hoses.



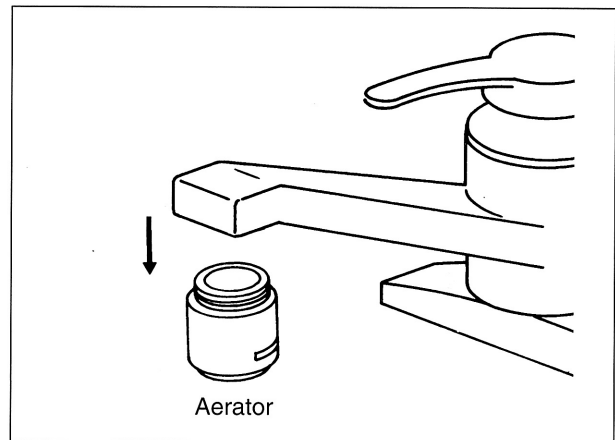
## Installing the branch tap (continued)

### Type-3

Type where the aerator can be removed (internally threaded type).

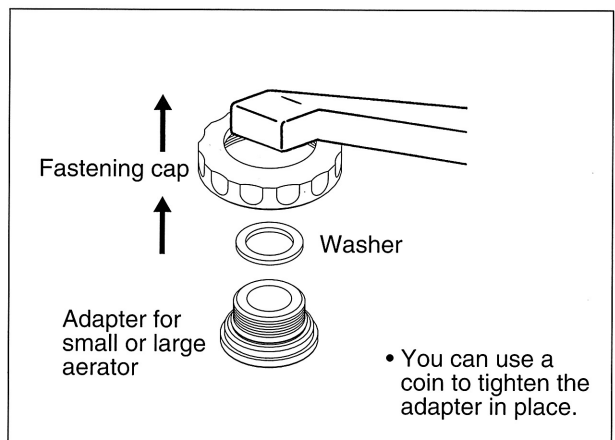


- 1 Remove the aerator from the end of the faucet.

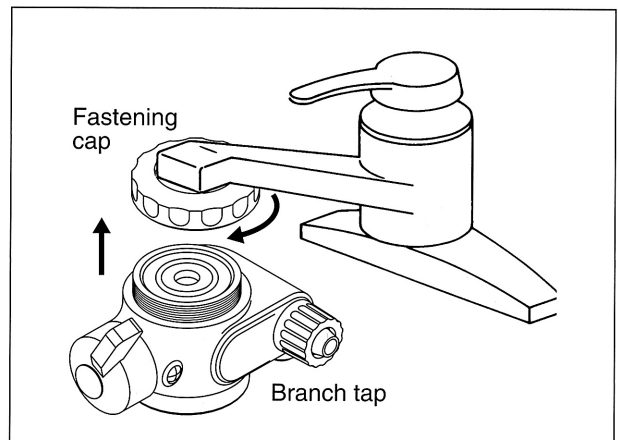


- 2 Place the fastening cap around the faucet.
  - Take care not to position the cap in the wrong orientation.

- 3 Attach the small size adapter after you have removed the aerator.
  - Use the large size if you have difficulty attaching the small size.

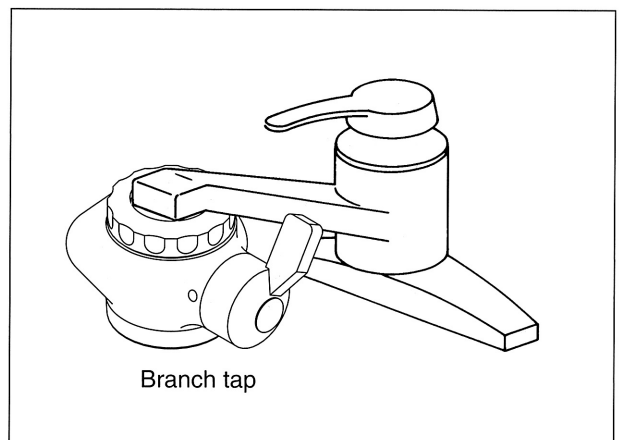


- 4** Securely tighten the fastening cap while pushing up on the branch tap so that the washer fits securely against the end of the faucet.



- 5** You have attached the branch tap.

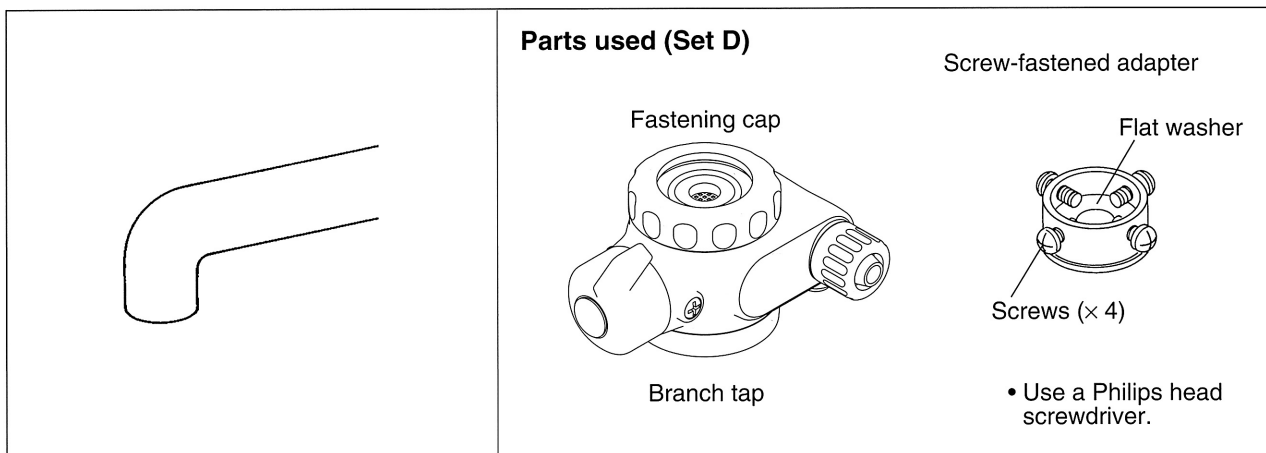
- See "Connecting hoses" on p.17 for more information about how to connect the hoses.



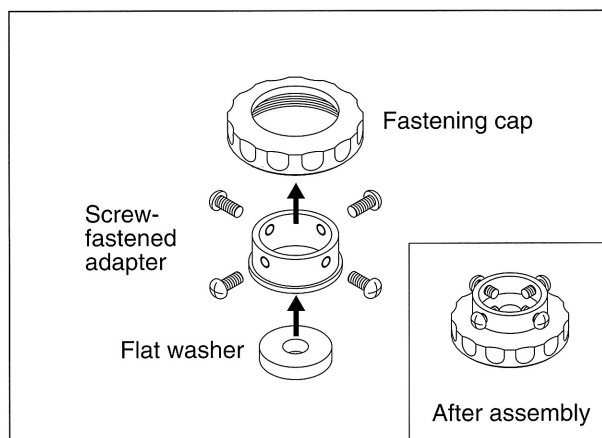
## Installing the branch tap (continued)

### Type-4

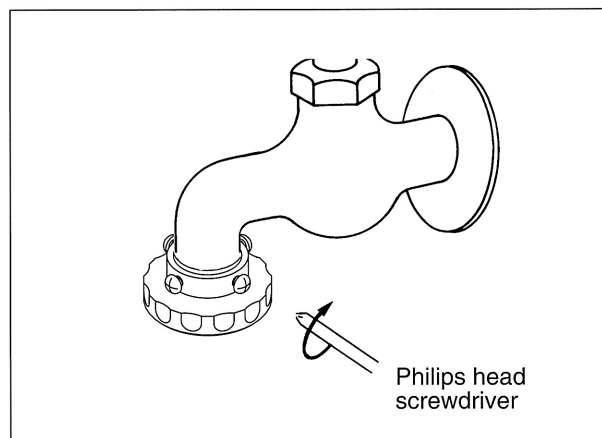
Faucets where the pipe does not thicken at the end.



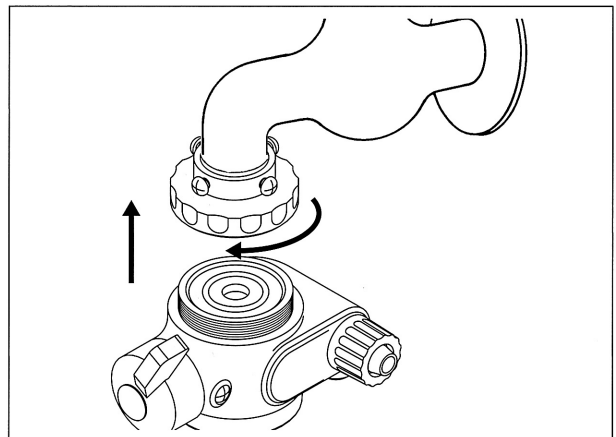
- 1 Insert the screw-fastened adapter (after removing the screws) into the fastening cap.
- 2 Temporarily set the screw-fastened adapter in place with the 4 screws.
- 3 Insert the flat washer.



- 4 Secure the assembled screw-fastened adapter and fastening cap in place by tightening the screws evenly so that the faucet is positioned in the middle of the screw-fastened adapter.

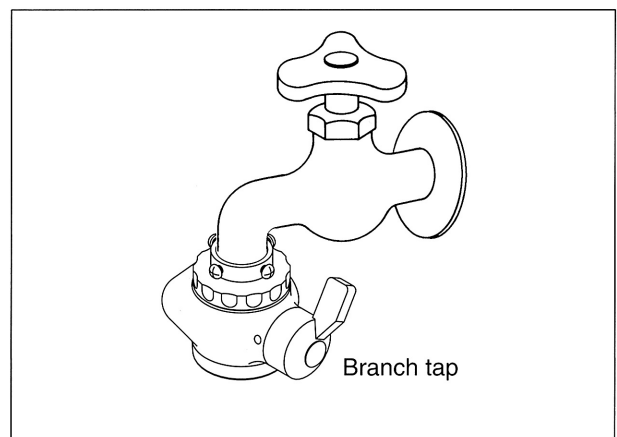


- 5** Securely tighten the fastening cap while pushing up on the branch tap so that the washer fits securely against the end of the faucet.



- 6** You have attached the branch tap.

- See "Connecting hoses" on p.17 for more information about how to connect the hoses.



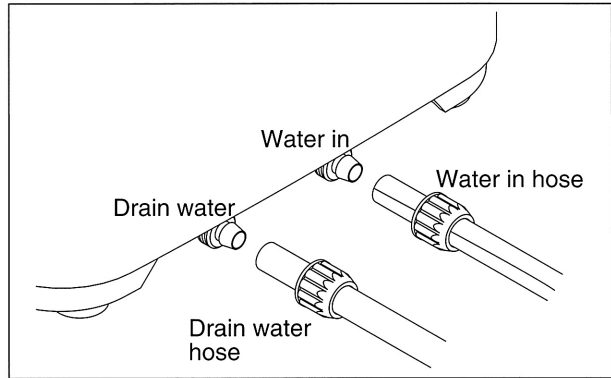
# Connecting hoses

## Connecting hoses to the device

Connect the included water in hose and drain water hose to the two connecting elbows on the rear of the device.

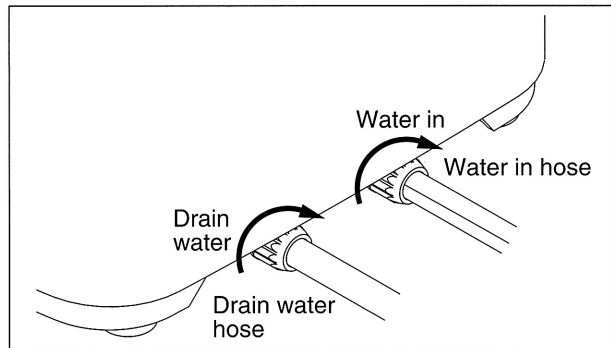
**1** Remove the nuts and stopcocks from the connecting elbows and run the water in and discharge hose through the nuts. (Take care not to get the nut backwards.)

**2** Insert each hose into each elbow and then tighten each in place with the nut.



**3** Run the drain water hose through the included suction cup and secure it in place. The water in hose is included in a single hose, and one of the hoses has a blue line printed on it to prevent the hose from being confused. Check for this blue line when connecting the hose.

- Connect the hose with the blue line to the water in connecting elbow on the device.



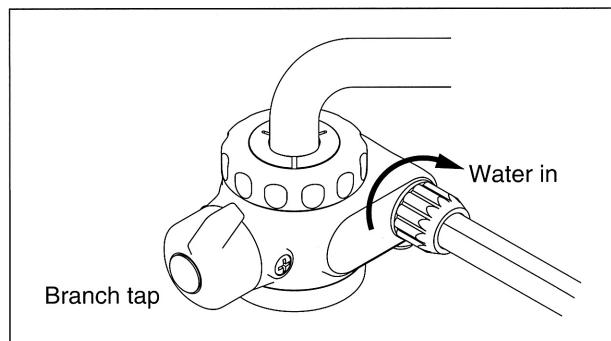
## Connecting the hoses to the branch tap

Connect the other end of the water in hose that was connected to the device to the branch tap.

**1** Cut the end of the water in hose that was connected to the device to the necessary length. Then remove the nut from the branch tap and run the hose through it. (Take care not to get the nut backwards.)

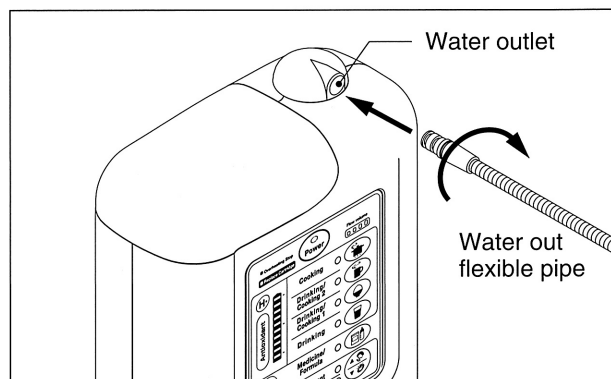
**2** Insert the hoses into the branch tap and tighten them in place with the nut.

**3** Tighten the hoses in place with the included fastening band.



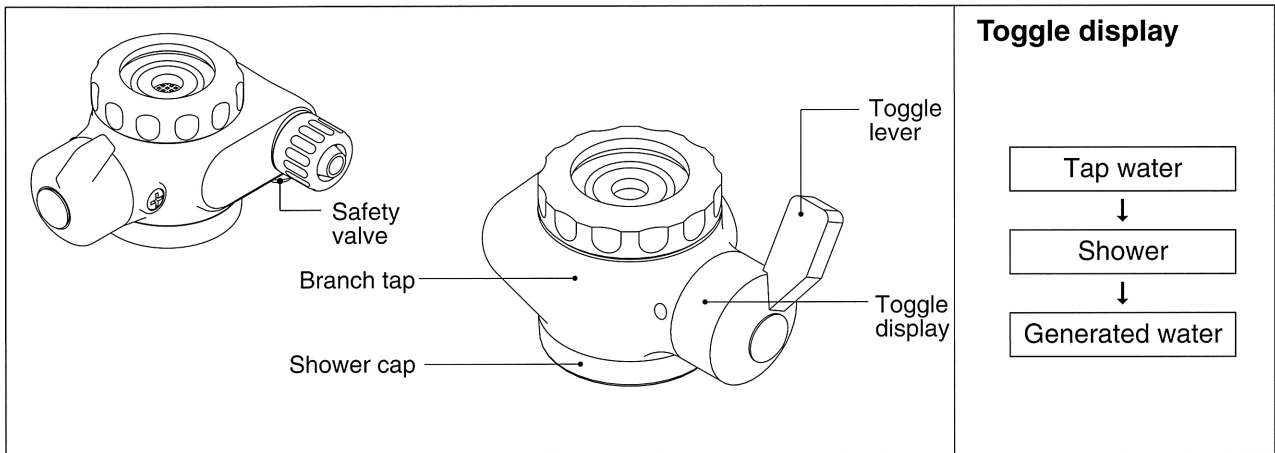
## Connecting the water out flexible pipe

Screw the water out flexible pipe to the water outlet.





# About the branch tap



## Generating antioxidant water, acidic water, and purified water

Move the toggle lever on the branch tap to the generated water position. (Use the water type selector on the device to choose antioxidant water, acidic water, or purified water.)

- Do not use hot water.  
Hot water (45 – 50°C) will be sent to the drain water hose without passing through the device.

## Using the original tap water

Move the toggle lever on the branch tap to the shower or tap position.

- Do not use water that is hotter than 50°C.

## Safety valve

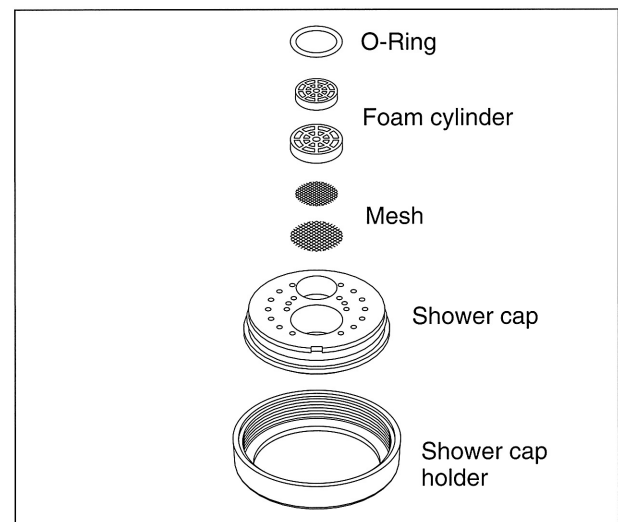
Water will be discharged through the safety valve in the following circumstances:

- (1) When the water pressure is high.
- (2) When the purification cartridge is clogged.
- (3) When there is a kink in one or more of the connection hoses.
- (4) When the aerator inside the shower cap is clogged.

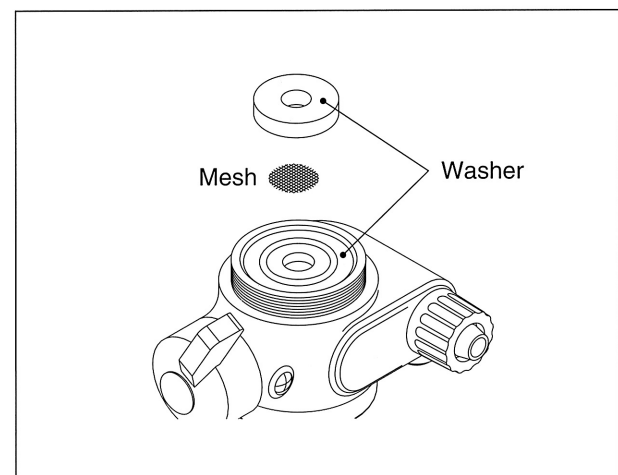
- See the checklist on p.32 when water is discharged from the safety valve.

## Branch tap maintenance

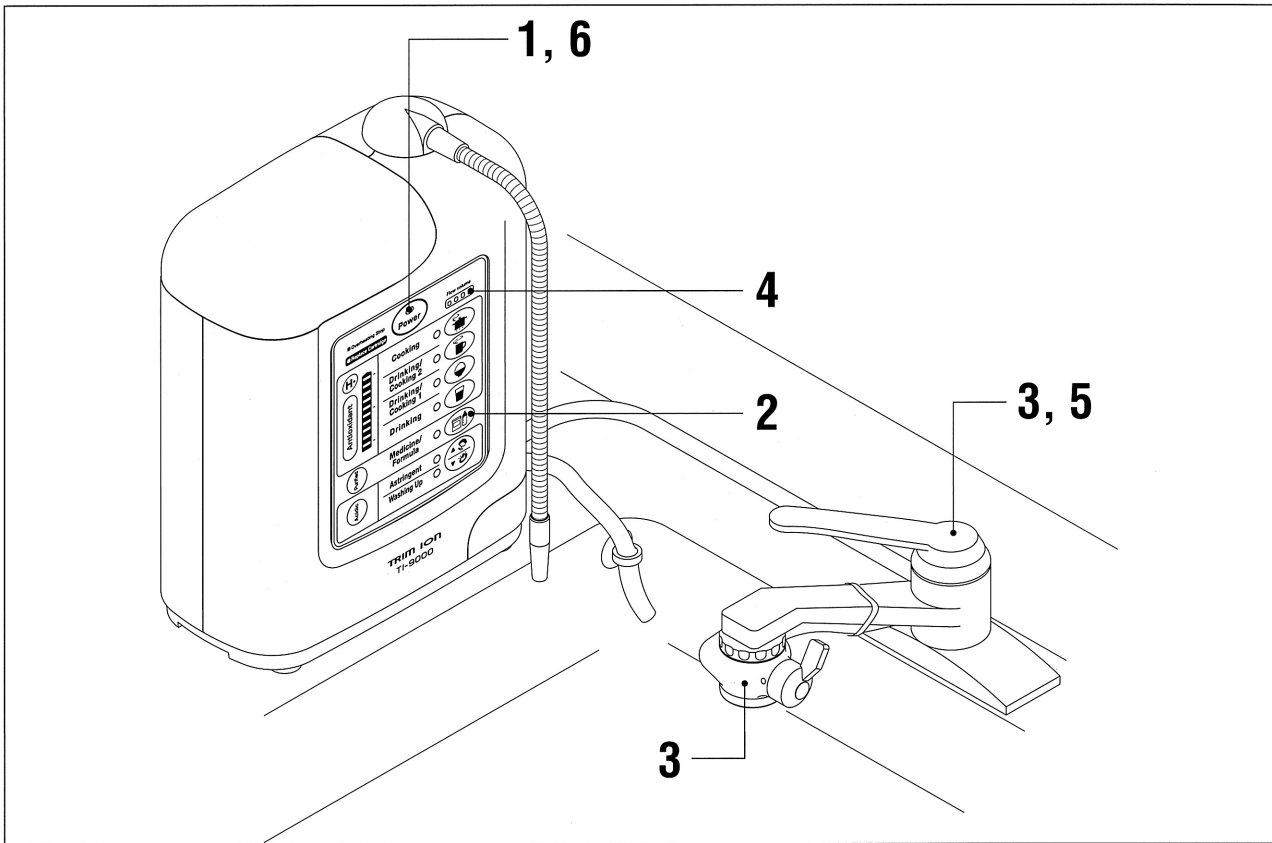
- 1** Remove the shower cap and the aerator inside it from the branch tap and use a brush to clean them.



- 2** Remove the branch tap from the faucet and use a brush to clean the mesh located between the washers.



# Generating antioxidant water



- 1** Press the power switch and verify that the power indicator is lit up. At the same time one of the water selector switches will light up.
- 2** Press the antioxidant water switch (4 steps) to select the appropriate water concentration. The indicator will change to display the new concentration.
- 3** Set the toggle lever on the branch tap to the generated water position and turn on the faucet to supply water to the TI-9000.
- 4** The water volume indicator will light up and the melody will play. The water volume indicator will change in accordance with the amount of tap water being supplied to the device. The number of lights that are on will vary with changes in water pressure. The red lamp indicates that too much water is being supplied to the device, so adjust the faucet to lower the volume of water going to the device. The device will begin producing a stable flow of generated water 2 to 3 seconds after the melody starts.

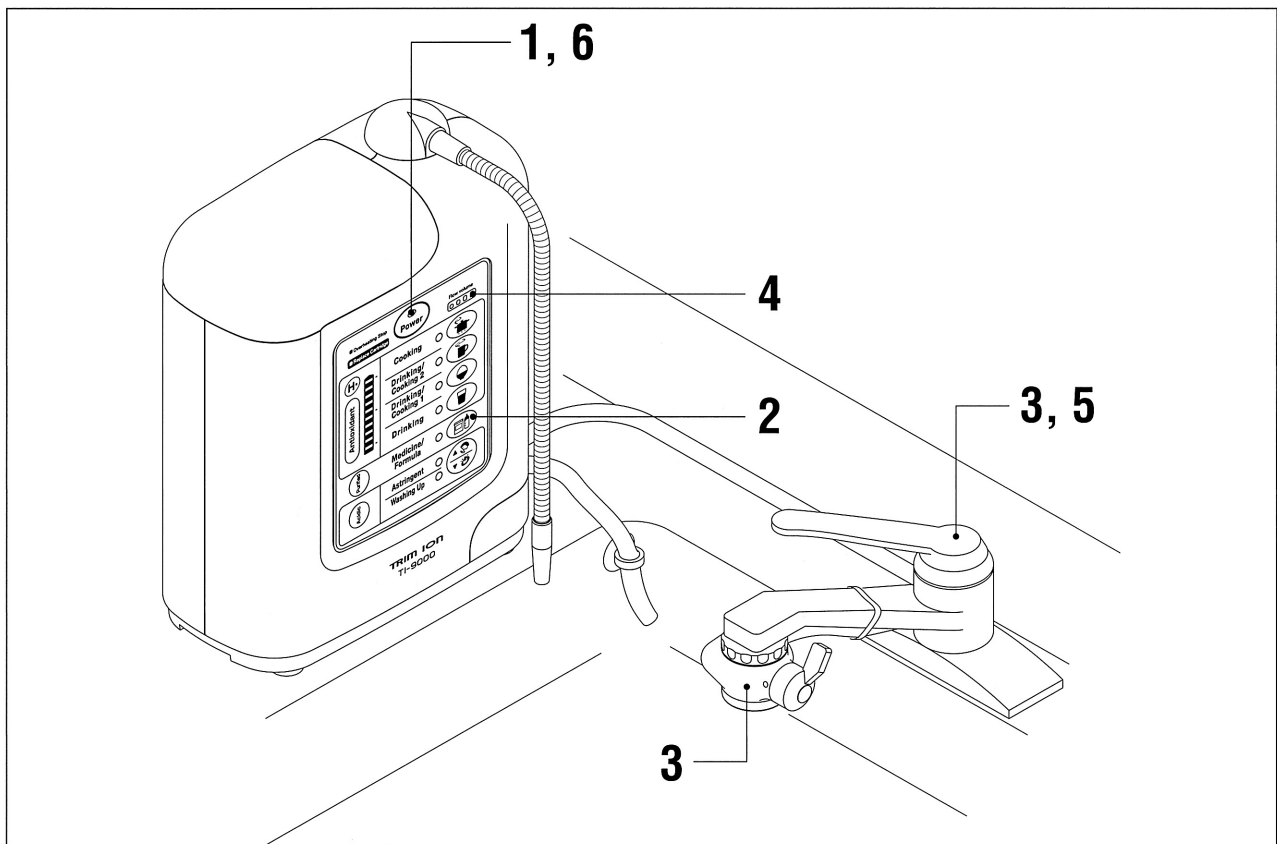
**5** Shut off the faucet once you are finished discharging generated water. The water volume indicator will turn off, and the melody will stop.

**6** Press the power switch to turn off the device, and verify that the power indicator is off.

## If the overheat stop indicator flashes...

Due to extended periods of use or to the qualities of the water being used, the overheat stop indicator may light up to prevent the device from overheating. At this time the device is no longer able to electrolyze the water, so please stop its supply of water. Once the temperature inside the device drops sufficiently, the overheat stop indicator will go out and it will once more be able to function normally.

# Generating acidic water



**1** Press the power switch and verify that the power indicator is lit up. At the same time one of the water selector switches will light up.

**2** Press the acidic water switch (2 steps) to select the appropriate water concentration. The indicator will change to display the new concentration.

**3** Set the toggle lever on the branch tap to the generated water position and turn on the faucet to supply water to the TI-9000.

**4** The water volume indicator will light up and the buzzer will sound. The water volume indicator will change in accordance with the amount of tap water being supplied to the device. The number of lights that are on will vary with changes in water pressure. The red lamp indicates that too much water is being supplied to the device, so adjust the faucet to lower the volume of water going to the device. The device will begin producing a stable flow of generated water 2 to 3 seconds after the buzzer starts.

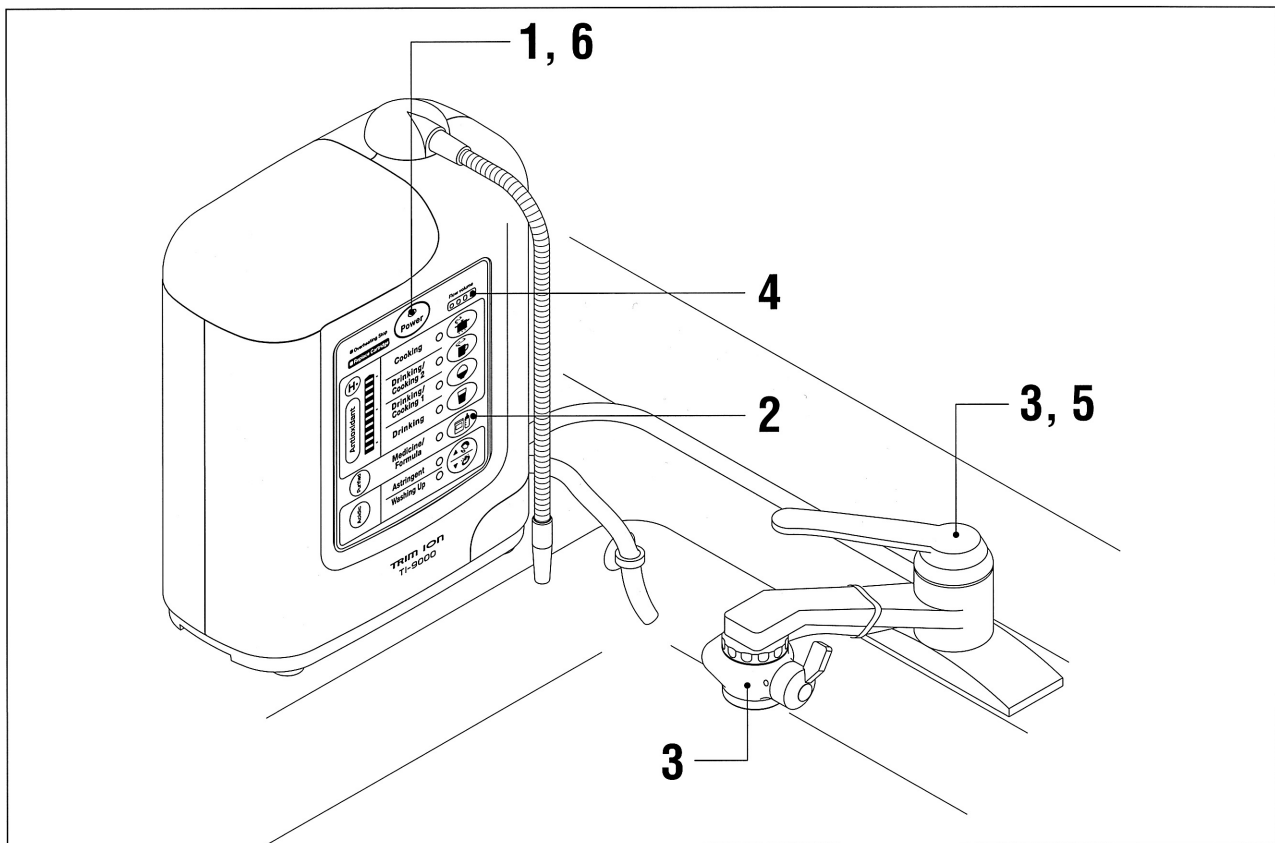
**5** Shut off the faucet once you are finished discharging generated water. The water volume indicator will turn off, and the buzzer will stop.

**6** Press the power switch to turn off the device, and verify that the power indicator is off.

## If the overheat stop indicator flashes...

Due to extended periods of use or to the qualities of the water being used, the overheat stop indicator may light up to prevent the device from overheating. At this time the device is no longer able to electrolyze the water, so please stop its supply of water. Once the temperature inside the device drops sufficiently, the overheat stop indicator will go out and it will once more be able to function normally.

# Generating purified water

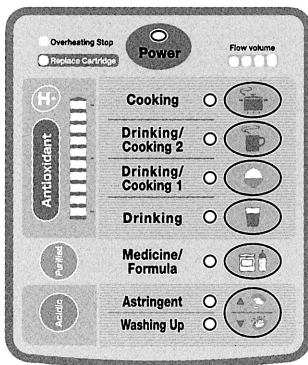


- 1** Press the power switch and verify that the power indicator is lit up. At the same time one of the water selector switches will light up.
- 2** Press the purified water switch. The purified water range indicator will light up.
- 3** Set the toggle lever on the branch tap to the generated water position and turn on the faucet to supply water to the TI-9000.
- 4** The water volume indicator will light up. The water volume indicator will change in accordance with the amount of tap water being supplied to the device. The number of lights that are on will vary with changes in water pressure. The red lamp indicates that too much water is being supplied to the device, so adjust the faucet to lower the volume of water going to the device.

- 5** Shut off the faucet once you are finished discharging generated water. The water volume indicator will turn off.
- 6** Press the power switch to turn off the device, and verify that the power indicator is off.

- Do not press the purified water switch when water is already being supplied to the device. Doing so when the water volume is high may cause the buzzer to sound and the indicator to flash, and you may not be able to select purified water. If this occurs, press the purified water switch once you have stopped the supply of water.
- Move the toggle lever on the branch tap to the shower or generated water position otherwise water may be discharged through the drain water hose in case the faucet has not been turned off firmly.

# Adjusting the water's pH level

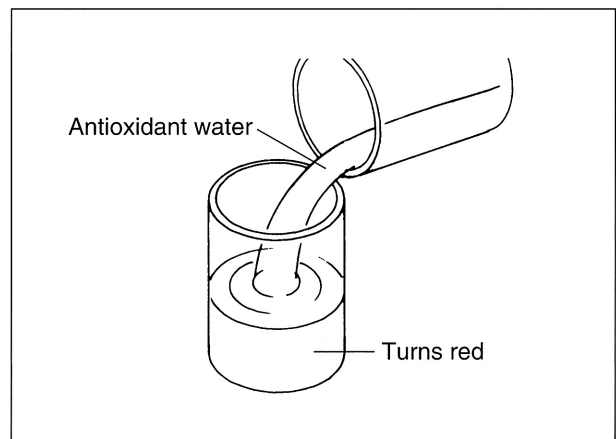
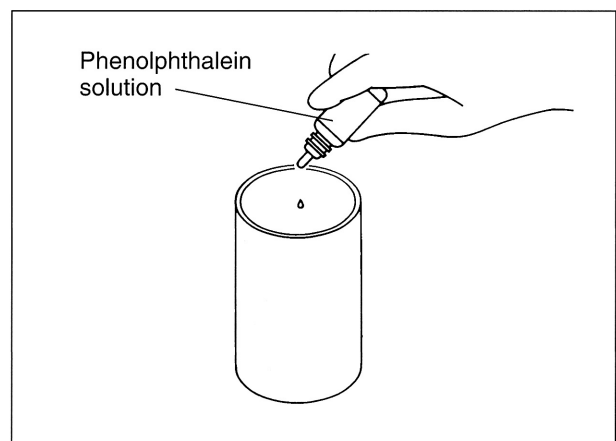


You can change the concentration of the generated water by pressing the water type selector (antioxidant water). The alkalinity of the water increases in the order of Drinking → Drinking/cooking 1 → Drinking/cooking 2 → Cooking. Use a pH level of 9.0 to 9.5 for drinking water.

- Periodically check the pH level using the pH testing liquid (phenolphthalein solution), since the alkalinity of the generated water will vary with changes in the water volume as well as with seasonal variations in tap water.

# How to measure the water's pH level

Place 1 or 2 drops of the included phenolphthalein solution for pH measurement into a cup and then fill the cup with antioxidant water. If the water turns red, the device is generating antioxidant water. To check the water's pH level, compare its color to the included pH level color chart. A pH level of between 9.0 and 9.5 is ideal for drinking. Although the tested water is not harmful, please do not drink it.



## How to drink antioxidant water and related precautions

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- When generating water for the first time on a given day, let the water run for at least 1 minute before drinking it. When the device has not been used for several days or more, allow water to run through it at the washing up setting for at least 3 minutes before drinking.
- People drinking water from the device for the first time should initially consume a small amount at about pH 9. Subsequently the pH and quantity of water consumed can be adjusted in view of how the drinker feels. A pH level of between 9 and 9.5 is suitable for drinking. (drinking or drinking/cooking (1) setting)
- When storing antioxidant water, place it in a plastic container or any container that can be tightly sealed, and keep it in a refrigerator. For sanitary reasons, all stored water should be consumed within 2 days.
- Do not drink the following types of generated water.
  - (1) Generated water into which a pH measurement fluid has been introduced.
  - (2) Water with a pH of 10 or higher.
  - (3) Water discharged from the drain water hose.
  - (4) Acidic water.

## How to use acidic water and related precautions

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- Acidic water acts as an astringent and has a bracing effect on skin, so use it on your skin after washing your face.
- Acidic water is appropriate for external use only. Do not drink it.
- When storing acidic water, place it in a plastic container or any container that can be tightly sealed, and keep it in a refrigerator. Under these conditions it can be kept for 1 to 2 days.

## How to use purified water and related precautions

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- Purified water mode removes the chlorine from tap water.
- Use purified water when taking medicine or making milk for infants.
- When storing purified water, place it in a plastic container or any container that can be tightly sealed, and keep it in a refrigerator. Under these conditions it can be kept for 1 to 2 days.

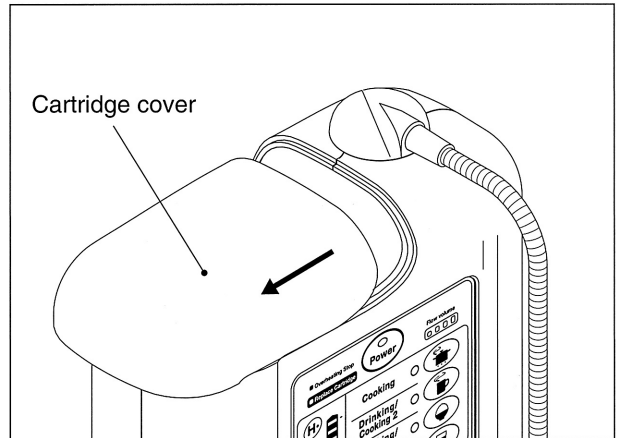


Use generated water only after carefully reading the “Safety warnings” section.

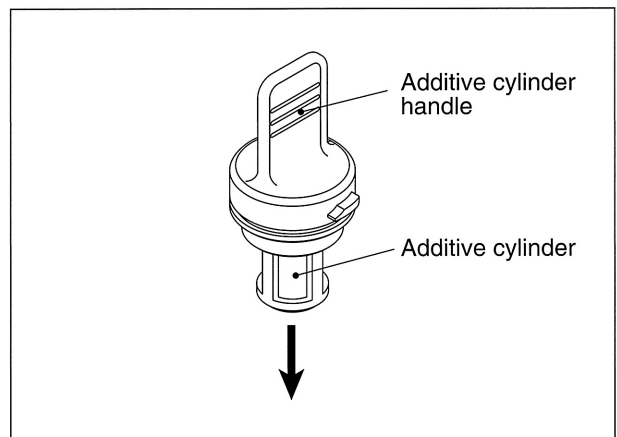
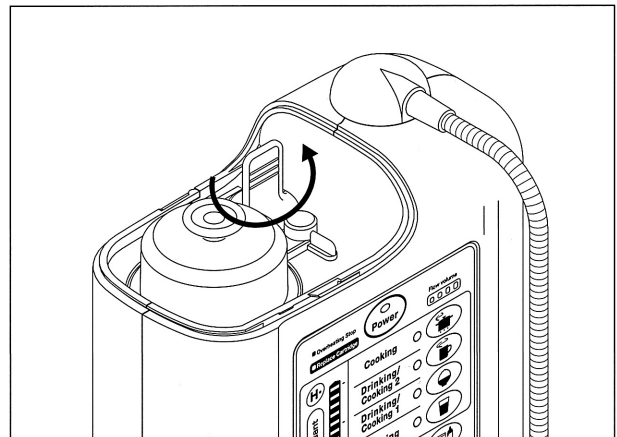
# How to add calcium lactate

- Calcium lactate is a catalyst that speeds up electrolysis. It is not necessary to use calcium lactate in regions where electrolysis is possible without it.

- 1** Slide the cartridge cover to the left to remove it.

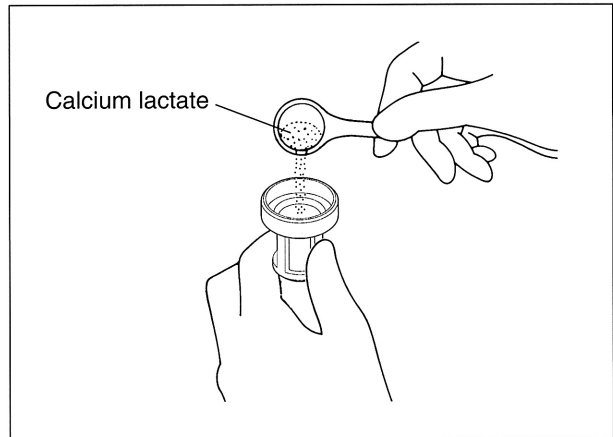


- 2** Turn the additive cylinder handle to remove the additive cylinder from the device. The additive cylinder handle and additive cylinder can be removed and separated as shown in the illustrations below.

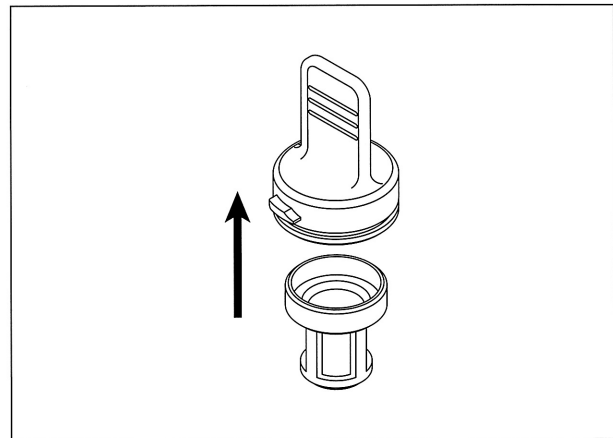


## How to add calcium lactate (continued)

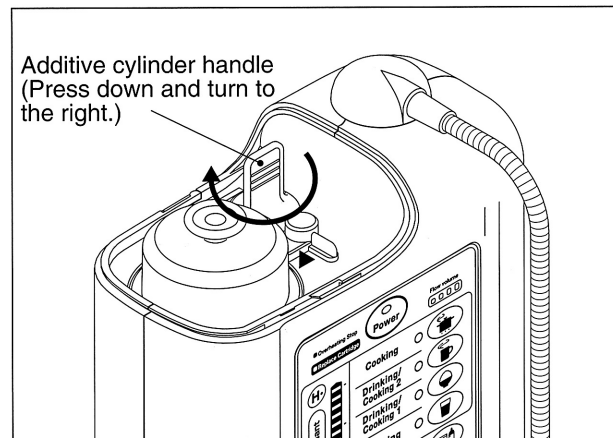
- 3** Add the included calcium lactate powder to the additive cylinder until it is about 80% full.



- 4** Reattach the additive cylinder to the additive cylinder handle and return them to the device as shown in the illustrations below.



- 5** Return the cartridge cover to the device.

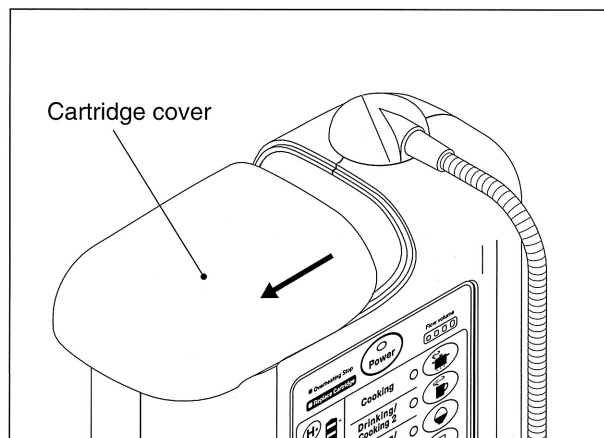




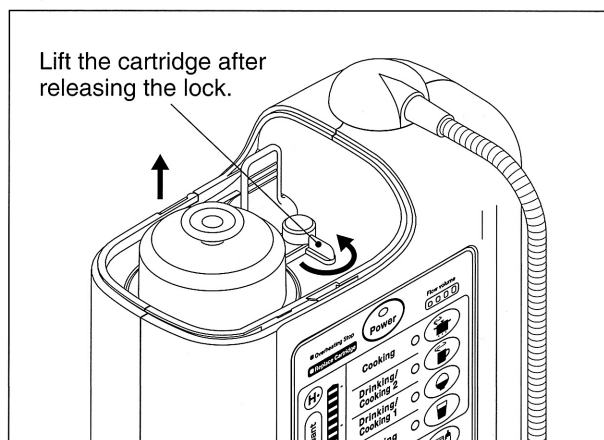
# Replacing the purification cartridge

Follow this procedure to replace the purification cartridge with a new one when the purification cartridge replacement lamp flashes along with the buzzer.

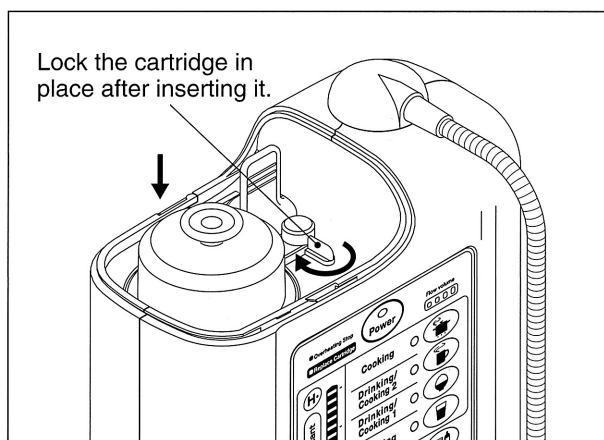
- 1** Turn off the faucet.
- 2** Slide the cartridge cover to the left to remove it.



- 3** Lift the cartridge out of the device.
  - Lift the cartridge out of the device after releasing the lock.

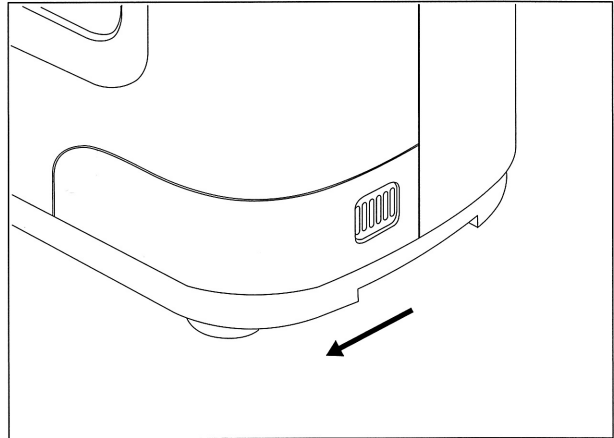


- 4** Insert a new cartridge into the device.
  - Let the device sit before inserting a new cartridge so that all of the water left in the device from the bottom of the old cartridge has a chance to be completely drained.



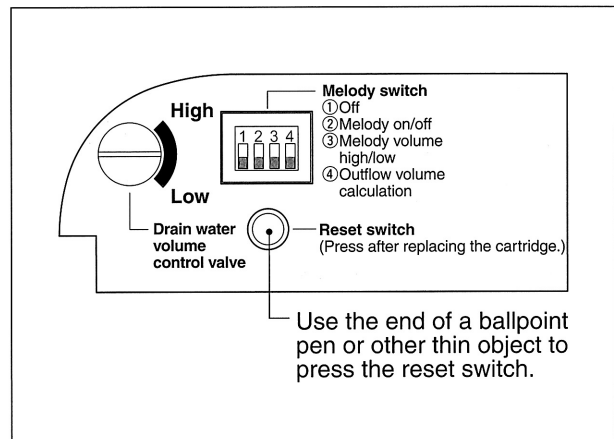
## Replacing the purification cartridge (continued)

- 5 Replace the cartridge cover.
- 6 Remove the switch cover. (You can remove the cover by sliding it to the front.)



- 7 Verify that the power indicator is lit up and press the reset switch in the device's switch pocket.
  - The indicator will stop flashing. (The running total of the volume of water used will be reset to 0.)

- 8 Replace the switch cover.



## When the device is not used for an extended period of time

- (1) Turn off the faucet.
- (2) Turn off the power switch.
- (3) Remove the calcium lactate additive cylinder and wash it.
- (4) Leave the power cord connected to an electrical outlet. Unplugging the power cord will result in the loss of the device's water volume data.

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• Consult with the retailer you purchased this device when replacing the purification cartridge.

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# Device maintenance

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- Do not expose the device to water or wash it. Doing so may result in a current leak or an electrical shock.
- Do not use benzene, thinners, cleansers, insecticides, or similar substances when performing maintenance on the device. Doing so may result in deformations in the device's shape, changes in its color, or cracking.
- Use a soft, dry cloth to wipe the device clean.
- See the "About the branch tap" section on p.18 for more information about branch tap maintenance.

## Having your device serviced

- The purification cartridge should be periodically replaced in order to maintain the optimum water quality. This device's purification cartridge has a residual chlorine processing capability of 12 tons (based on testing methods established by the Japan Water Works Association). This capability is equivalent to a service lifetime of about 1 year assuming water usage of 35 liters each day, although various other substances contained in your tap water may influence this figure slightly.
- Have the technician who installed your unit explain how to use it properly, and please follow those instructions to get the most out of your new water device.
- NIHON TRIM CO.,LTD has implemented a rigorous product testing program. In the unlikely event of an accident, please contact the following number. Tel: +81-(0)6-6456-4633/Fax: +81-(0)6-6455-3953

# Main specifications

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<b>Rated voltage:</b>	200 – 240 V AC
<b>Rated frequency:</b>	50/60 Hz
<b>Rated current/Power consumption:</b>	3 A (max. 5 A)/300 W (max. 500 W)
<b>Electrolysis generated voltage:</b>	70 V (max.)
<b>Electrolytic tanks:</b>	4 (8 cell)
<b>Electrodes:</b>	Platinum-thick coated titanium electrode
<b>System used for discharging ionized water:</b>	1-way type
<b>Rated water generation volume:</b>	Antioxidant water: 5.0 l/m (max.) Acidic water: 5.0 l/m (max.) Purified water: 6.0 l/m (max.)
<b>Input water pressure:</b>	0.5 – 7.0 kg/cm <sup>2</sup>
<b>Device weight:</b>	5 kg
<b>Power cord length:</b>	2 m
<b>Device dimensions:</b>	271 (W) × 367 (H) × 138 (D)
<b>Calcium lactate additive device:</b> Calcium lactate is a catalyst used to speed up electrolysis.	Case insertion additive type
<b>Purification cartridge lifetime:</b> (This capability is equivalent to a service lifetime of about 1 year assuming water usage of 65 liters each day, although various other substances contained in your tap water may influence this figure slightly.)	Residual chlorine processing capability of 12 tons
<b>Electrolytic tank cleaning system:</b>	Double auto-changing cross-line system
<b>Power supply circuit:</b>	Switching regulator control system
<b>Device protection circuit:</b>	8 A fuse Fixed current control circuit Overheating protection device

Specifications are subject to change without prior notice in order to facilitate device improvements. For this reason, there may be some discrepancies with your product. Thank you for your understanding.

# Checklist 1

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## Make one final check

- Did you carefully read this instruction manual?
- Did you check whether your water was suitable for use with this device? (See p.1 of this manual.)
- Did you properly insert the power plug into an electrical outlet?
- Are you using the device with the indicated power voltage (200 – 240 V AC)?
- Has the power cord been excessively bent or damaged?
- Have you connected more than one cord to a single outlet?
- Are you using an old and worn out outlet?
- Have you secured the power cord in place with staples?
- Did you install the device in a suitable location? (See p.7 of this manual.)
- Are the hoses bent or twisted? Has the drain water hose been coiled or placed in a location that is higher than the device?
- Do you understand what to do if you accidentally drop the device into water? (See the page of safety warnings in this manual.)
- Did you carefully read the precautions relating to the consumption of antioxidant water? (See p.23 of this manual.)
- Did you carefully read the precautions relating to the use of acidic water? (See p.23 of this manual.)
- Do you understand how to store antioxidant water? (See p.23 of this manual.)
- Did you properly adjust the water's pH level? (See p.22 of this manual.)

# Checklist 2

## When you think your device may be broken

When you think your device may be broken, use the following checklist to investigate possible problems before asking to have it serviced.

**Never attempt to disassemble or repair the device yourself.**

Problem	Things to check	Solutions
The device won't turn on.	<ul style="list-style-type: none"> <li>• Has the power plug been inserted into an electrical outlet?</li> </ul>	<ul style="list-style-type: none"> <li>• Plug in the power cord.</li> </ul>
The switches don't work.	<ul style="list-style-type: none"> <li>• Has the power plug been inserted into an electrical outlet?</li> <li>• Is the fuse on the rear of the device blown?</li> </ul>	<ul style="list-style-type: none"> <li>• Plug in the power cord.</li> <li>• Replace the fuse (8 A).</li> </ul>
The device doesn't discharge water, or the water flow is bad (the water volume indicator doesn't light up).	<ul style="list-style-type: none"> <li>• Is the faucet off or nearly off?</li> <li>• Is the water supply hose connected to the branch tap?</li> <li>• Are the hoses bent?</li> <li>• Is the water pressure too low (0.5 kg/cm<sup>2</sup> or less)?</li> <li>• Has the water supply been cut off or frozen?</li> <li>• Is the purification cartridge clogged?</li> <li>• Are you supplying hot water (50°C or higher) to the device? (The hot water prevention unit has been engaged.)</li> </ul>	<ul style="list-style-type: none"> <li>• Turn on the faucet.</li> <li>• Connect the hose.</li> <li>• Straighten out the hoses so that they are not bent.</li> <li>• The device cannot be used with low water pressure.</li> <li>• Wait until a usable water supply becomes available.</li> <li>• Replace the purification cartridge.</li> <li>• Hot water is flowing to the device. Adjust the faucet so that cold water is supplied instead. Once hot water stops flowing to the device, it should resume normal operation in about 10 seconds.</li> </ul>
Water leaks from the connection hoses.	<ul style="list-style-type: none"> <li>• Have the hoses been sufficiently inserted?</li> <li>• Has the connection nut been sufficiently tightened?</li> </ul>	<ul style="list-style-type: none"> <li>• Firmly insert the hose.</li> <li>• Tighten the nut securely.</li> </ul>
The ion concentration is low.	<ul style="list-style-type: none"> <li>• Has the drain water hose been bent or placed in a high location?</li> <li>• Has the pH concentration been set too low?</li> <li>• Is the water volume too high?</li> <li>• Has the drain water volume been lowered too much?</li> </ul>	<ul style="list-style-type: none"> <li>• Straighten the hose so that it is no longer bent or move it to a location that is lower than the device.</li> <li>• Increase the concentration.</li> <li>• Adjust the faucet to decrease the amount of water being supplied to the device.</li> <li>• Turn the drain water volume control valve clockwise to increase the amount of drain water.</li> </ul>
The water tastes or smells strange.	<ul style="list-style-type: none"> <li>• Has the device been left for an extended period of time without being used?</li> <li>• Is the pH concentration too high?</li> </ul>	<ul style="list-style-type: none"> <li>• Let water flow through the device for 3 minutes. If this does not help, try replacing the purification cartridge.</li> <li>• Lower the concentration. Or, try adjusting the faucet so that more water flows to the device.</li> </ul>
The water volume indicator flashes with the buzzer.	<ul style="list-style-type: none"> <li>• Have you toggled the water type selector while 3 or more of the water volume indicators were lit?</li> <li>• Is the water volume too high?</li> <li>• The indicator may flash when the device is used continuously for a long period of time or when electrolysis ends while the faucet is still turned on.</li> </ul>	<ul style="list-style-type: none"> <li>• Adjust the faucet so that less water flows to the device.</li> </ul>

Problem	Things to check	Solutions
The replacement lamp keeps flashing even though the purification cartridge has been replaced.	<ul style="list-style-type: none"> <li>• Did you press the reset switch in the switch pocket (see p.4)?</li> </ul>	<ul style="list-style-type: none"> <li>• Press the reset switch. (See p.4.)</li> </ul>
The amount of water being discharged varies dramatically when changing the water type selector and when stopping the water flow.	<ul style="list-style-type: none"> <li>• Are you changing the water type selector to purification or from purification to antioxidant water or acidic water while discharging water?</li> </ul>	<ul style="list-style-type: none"> <li>• Turn off the faucet when changing the water type selector.</li> </ul>
The buzzer sounds and power to the device is turned off.	<ul style="list-style-type: none"> <li>• See solution to right.</li> </ul>	<ul style="list-style-type: none"> <li>• When calcium lactate has been added to the device, remove it. Run water through the device for about 1 minute after turning off the power switch. If the condition persists when you turn on the device again, contact retailer you purchased this device.</li> </ul>
The overheat stop indicator flashes and the melody does not play.	<ul style="list-style-type: none"> <li>• See solution to right.</li> </ul>	<ul style="list-style-type: none"> <li>• The high temperature prevention device (thermostat) operates to stop electrolysis for about 2 minutes. Wait until that time has elapsed.</li> </ul>
The melody repeatedly stops while discharging antioxidant water.	<ul style="list-style-type: none"> <li>• Is the volume of water flowing into the device insufficient?</li> </ul>	<ul style="list-style-type: none"> <li>• Adjust the faucet so that more water flows to the device.</li> </ul>
Water leaks from the branch tap's safety valve.	<ul style="list-style-type: none"> <li>• Is the water pressure high, or is the water volume too high?</li> <li>• Is the purification cartridge clogged? (Red rust or other substances present in the water may clog the cartridge even if it has reached its 12-ton capability.)</li> <li>• Are the connection hoses bent?</li> <li>• Is the aerator inside the branch tap's shower cap clogged?</li> </ul>	<ul style="list-style-type: none"> <li>• Adjust the faucet so that less water flows to the device.</li> <li>• Replace the purification cartridge.</li> <li>• Straighten the hoses so that they are no longer bent.</li> <li>• Clean the aerator. (See p.18.)</li> </ul>

People, Life, Water



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