

Mixing Faucet-Integrated Electrolyzed Hydrogen Water  
Apparatus (Under-Sink Type)

# TRIM ION GRACIA

**TRIM ION GRACIA**  
(Normal Type/Hot Water-Saving C1 Type)

## Instruction Manual

Thank you for purchasing TRIM ION GRACIA. Please read this instruction manual carefully to use the apparatus correctly.



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#### Purification Cartridge for TRIM ION GRACIA

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**※ Designations in this manual**

In our custom dictionary, “electrolyzed hydrogen water” means alkaline electrolyzed water, a type of alkaline drinking water that is generated from electrolysis on the cathode and contains hydrogen, while “acidic water” means acidic electrolyzed water generated on the anode.



## Safety Precautions

You must follow ⚠️WARNING and ⚠️CAUTION, which describe important information to prevent harm to humans and damage to property.

### Symbols



■ You must follow information under the following WARNING and CAUTION symbols, in particular.

These symbols indicate the level of harm and damage in case of misoperation.

 WARNING	May result in death or serious injuries.	 CAUTION	May result in injuries or property damage.
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### ■ Indications

The following symbols indicate the types of instructions you must follow. (These are only some of the symbols.)

	Indicates a prohibition.		Indicates an instruction for users.
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**Safety Precautions** —You must observe the following—

### WARNING

 Prohibition	<ul style="list-style-type: none"> <li>● <b>Do not damage or break the power cord.</b> <ul style="list-style-type: none"> <li>• Do not staple, process, forcibly bend, pull, twist, or tie the power cord. Do not put a heavy object on the cord or put it between objects.</li> </ul> </li> <li>● <b>Do not connect multiple power cords of electric products to a single outlet.</b></li> <li>● <b>Do not apply voltage other than the indicated power supply voltage (220 VAC).</b></li> <li>● <b>Do not connect/disconnect the power plug with wet hands.</b></li> <li>● <b>Do not leave a person (including children) alone, who needs an assistant, using the apparatus.</b> <ul style="list-style-type: none"> <li>• Such a person must use the apparatus under supervision and instructions from another one who is responsible for safety.</li> <li>• Be careful that children do not play with the apparatus.</li> </ul> </li> </ul>
 Prohibition	<ul style="list-style-type: none"> <li>● <b>Do not modify, disassemble, or repair the apparatus by yourself.</b> <ul style="list-style-type: none"> <li>• When the apparatus has errors or faults, ask the sales agent to repair it.</li> </ul> </li> </ul>
 Instruction	<ul style="list-style-type: none"> <li>● <b>Insert the power plug completely into an outlet.</b></li> <li>● <b>Do not use an outlet with loose ports.</b></li> <li>● <b>Wipe dust from the power plug regularly with a dry cloth.</b></li> <li>● <b>When disconnecting the power cord, be sure to hold the power plug to do so.</b> <ul style="list-style-type: none"> <li>• When the power cord is damaged, ask the sales agent to repair it.</li> </ul> </li> </ul>
 Instruction	<ul style="list-style-type: none"> <li>● <b>In case of the accidental immersion of the apparatus in water, disconnect the power plug from the outlet and then raise the apparatus from water.</b> <ul style="list-style-type: none"> <li>• Ask the sales agent to repair it.</li> </ul> </li> <li>● <b>When the apparatus has errors or faults, stop using it immediately and disconnect the power plug.</b> <ul style="list-style-type: none"> <li>• Consult the sales agent about servicing or repairs.</li> </ul> </li> </ul>

## Safety Precautions —You must read the following—



CAUTION



Prohibition

- Do not take medicines with electrolyzed hydrogen water.
- Those who suffer from renal diseases, such as renal failure and potassium excretion disorder, must not drink electrolyzed hydrogen water.
- Those who suffer from achlorhydria must not drink electrolyzed hydrogen water.
- Do not drink water with a pH of 10 or more directly. \*Test pH regularly. (Page 19)
- Use drinking water only. In addition, do not run hot water at a higher temperature than 35°C through the body. (Page 6)
- Do not drink the following types of water:
  - Acidic water - Water from a small pipe - Water with pH testing liquid included
- Do not use aluminum containers that are vulnerable to alkali and copper containers that are vulnerable to acid.
- Do not use electrolyzed hydrogen water for fish tanks of goldfish and tropical fish. (Page 28)



Instruction

- Those to whom some of the following conditions are applicable must consult a doctor before drinking electrolyzed hydrogen water:
  - Being treated by a doctor
  - Suffering from renal diseases
  - Having physical abnormalities

\*When you consult a doctor, inform the doctor of the following:

  - The amounts of calcium, magnesium, sodium, potassium, and other minerals in tap water will increase.
  - The pH of tap water will be approximately 9.5.
- If you feel any physical abnormalities after drinking electrolyzed hydrogen water or your symptom has not improved though continuously drinking it, stop drinking the water and consult a doctor.
- To replace water remaining in the body and control calcium deposition, switch the water intake mode to “Acidic Water” and run water when you start using the apparatus every day, at your bedtime, and if you are not going to use the apparatus for six hours or more. (Touch “Acidic Water” on the touch screen to switch to it.) The duration of water running is estimated in the table to the right. After completing water running, close the purification handle and switch to electrolyzed hydrogen water or clean water for drinking.
 

■ Estimated duration of water running




At bedtime or when not used for six hours or more	About 5 sec
At start of everyday use	About 20 sec
After not used for a day	About 1 min
After not used for two days or more	About 3 min
After not used for a week	About 5 min
At first use or after purification cartridge replaced	About 5 min

\*If the apparatus was not used for a month or more, we recommend replacing the purification cartridge.
- We recommend drinking water with a pH of approximately 9.5 (from 9.0 to less than 10.0). If you drink electrolyzed hydrogen water for the first time, you should drink a small amount of the water with Hydrogen Water Level 1.
  - A pH of 9.5 is estimated as a color between those of 9.0 and 10.0 on the pH comparison chart.
  - Test the pH (page 19) at the first use of the apparatus and subsequently once a month or more to check that the pH of electrolyzed hydrogen water falls within the target range.
- Drink approximately 500 to 1000 mL of electrolyzed hydrogen water per day.
- Use generated water as soon as possible after its generation. To store electrolyzed hydrogen water/clean water, contain it in a fridge with clean, well-closed containers, such as plastic bottles, and then drink it within two days.

## Safety Precautions —You must read the following—



### CAUTION

 Instruction	<ul style="list-style-type: none"> <li>● Those to whom some of the following conditions are applicable must consult a doctor before using acidic water:             <ul style="list-style-type: none"> <li>• Having sensitive skin</li> <li>• Having an allergy</li> </ul> </li> <li>● If you feel any skin abnormalities after using acidic water, stop using the water immediately and consult a doctor.</li> </ul>
 Prohibition	<ul style="list-style-type: none"> <li>● Do not block the air vent with your hand or an object, or do not insert an object into it.</li> <li>● Do not connect and use the apparatus with other devices.</li> <li>● Do not attach or connect structural parts other than those permitted for the apparatus.</li> <li>● Do not use the apparatus in a humid place.</li> <li>● Do not block the water outlet. Do not bend or twist hoses.</li> <li>● Do not put any objects on the apparatus.</li> <li>● Do not use the apparatus with its body laid down.</li> </ul>
 Instruction	<ul style="list-style-type: none"> <li>● Install the apparatus on a flat place.             <ul style="list-style-type: none"> <li>• Do not install it on an unstable or tilted place.</li> </ul> </li> <li>● Do not install the apparatus in the following places:             <ul style="list-style-type: none"> <li>• Near high temperature equipment (60°C or more)</li> <li>• Where the apparatus is exposed to direct sunlight or the elements</li> <li>• Where the apparatus is possibly frozen</li> <li>• Where oil is likely to be attached to the apparatus</li> </ul> </li> <li>● Ensure that the piping is not frozen. If the piping is possibly frozen, take measures for this, such as covering it with a cloth.</li> <li>● For the installation and relocation of the faucet, contact the sales agent.</li> <li>● Plug the apparatus into a grounded outlet only. If no outlets are grounded, you must ground any of them.</li> <li>● Do not use hot water at a higher temperature than 60°C.</li> <li>● Do not open the purification handle immediately after the property is newly built or renovated with a waterworks repair or when waterworks plumbing is conducted in the vicinity. Open the hot/cold water lever to run water for 10-15 minutes for the drainage of dirt in the piping before using the apparatus.</li> </ul>

## Safety Precautions —You must read the following—






### CAUTION

<p>Instruction</p>	<ul style="list-style-type: none"> <li>● <b>Disconnect the power plug when not using the apparatus for a long time.</b> <ul style="list-style-type: none"> <li>• When you use the apparatus again, check that all hoses, the purification cartridge, and the power cord are connected correctly and securely and that all the buttons operate correctly and safely. To start using the apparatus, touch “Acidic Water” on the touch screen to switch to it before running water. (Page 2)</li> </ul> </li> </ul>
<p>Instruction</p>	<ul style="list-style-type: none"> <li>● <b>When you use pH testing liquid, pay attention to the following:</b> <ul style="list-style-type: none"> <li>• Do not put the liquid into the eyes or do not swallow it. In case of accidental swallowing or application to the eyes, drink a large amount of water or wash the eyes sufficiently. Then, consult a doctor.</li> <li>• Do not use the liquid near fire.</li> <li>• Be sure to replace the cap and store the liquid in a place unreachable by infants.</li> <li>• Store the pH comparison chart in a place that is not exposed to direct sunlight and is dark. Otherwise, the chart may be discolored.</li> </ul> </li> </ul>
<p>Prohibition</p>	<ul style="list-style-type: none"> <li>● <b>Do not pour water on the apparatus or wash it in water.</b> <ul style="list-style-type: none"> <li>• If water is poured accidentally, wipe it with a dry cloth.</li> <li>• Do not use cleaning agents, bleaching agents, alcohol, benzene, thinner, cleansers, insecticides, and other chemicals.</li> <li>• For care, dampen a soft cloth and wring it before wiping the apparatus.</li> <li>• For care, be sure to disconnect the power plug from the outlet.</li> </ul> </li> </ul>
<p>Instruction</p>	<ul style="list-style-type: none"> <li>● <b>Do not block the water outlet.</b></li> <li>● <b>Do not extend the shower head excessively. Otherwise, it will be hard to return the hose or it will break, causing water leaks.</b></li> <li>● <b>Do not use the apparatus while the end of the shower head or the small pipe is in contact with the surface of water.</b></li> <li>● <b>When you use the shower hose, drops of water may be attached extensively to the hose depending on your use. If you put the shower hose back as it is, drops of water may fall under the sink. Check that drops of water do not fall under the sink regularly.</b></li> <li>● <b>Use our original purification cartridge only. (Page 30)</b></li> <li>● <b>Keep the shower head clean from leftovers on dishes and cleaning agents. Otherwise, the shower head will be clogged or various bacteria will be generated on it. If the shower head becomes dirty, remove dirt immediately and run water to wash the inside of the head.</b></li> </ul>


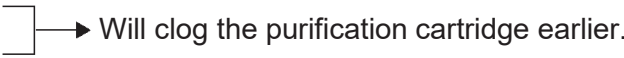
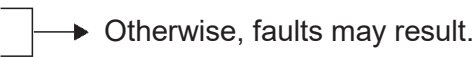
## Safety Precautions —You must read the following—



### CAUTION

 Prohibition	<ul style="list-style-type: none"> <li>● Do not leave infants alone using the apparatus.</li> <li>● Do not touch the body of the faucet directly with your skin when you use hot water. (Be careful because the body of the faucet is hot.)</li> <li>● Do not touch the hot water piping under the sink. (Be careful because it is hot.)</li> </ul>
 Prohibition	<ul style="list-style-type: none"> <li>● Do not pour water or hot water directly onto the touch screen. (Otherwise, the touch screen may malfunction.)</li> <li>● Keep hot objects such as frying pans and kettles away from the touch screen. (Otherwise, the touch screen may be deformed due to heat, becoming inoperable or faulty. )</li> </ul>
 Instruction	<ul style="list-style-type: none"> <li>● When you use hot water, be sure to turn the hot/cold water lever to the cold water side before opening the faucet. If you turn the lever to “Hot Water” before opening the faucet, high-temperature hot water may flow out.</li> <li>● Check that hot water has a suitable temperature before using it.</li> <li>● After you use high-temperature hot water, be sure to turn the hot/cold water lever to the cold water side and run water for a while before closing the faucet. Remaining high-temperature hot water may flow out.</li> <li>● Operate the faucet slowly, especially for stopping water running. If you suddenly close the faucet, a strong water hammer may result, causing looseness in the piping connections, damage to body parts, or water leaks.</li> <li>● Do not open the hot/cold water lever and the purification handle simultaneously.</li> <li>● Do not impact the faucet, the body, and the connections. Otherwise, faults will result.</li> <li>● Do not use the apparatus with water leaks. Close the stopcocks immediately and contact the sales agent.</li> <li>● Pay attention to the piping connections and the hoses when you put in and take out objects under the sink. If force is applied to them excessively, water leaks may result.</li> <li>● When movable parts are hard to move, lime scale may be adhered. Consult the sales agent.</li> <li>● Dispose of a used body, consumables, and accessories according to locally specified disposal procedures.</li> <li>● Be sure to follow the operating procedures and safety precautions. In case of misoperation, faults will result.</li> </ul>

## Important Information

 Instruction	<ul style="list-style-type: none"> <li>● <b>This apparatus is intended to apply drinking water conforming to the Ordinance of the Ministry of Health, Labour, and Welfare, No. 101 of 2003.</b></li> <li>● <b>If you use groundwater, in particular, use drinking one only.</b></li> <li>● <b>Do not allow the following types of water to run through the apparatus. Otherwise, faults may result.</b> <ul style="list-style-type: none"> <li>- Muddy water</li> <li>- Water with red rust</li> <li>- Hot water at a temperature of 35°C or more</li> <li>- Salty water (such as well water near the seashore)</li> </ul> </li> </ul> <p style="margin-left: 100px;">    </p> <ul style="list-style-type: none"> <li>● <b>This apparatus is intended for household use.</b></li> <li>● <b>Do not use hot water at a higher temperature than 60°C.</b></li> </ul>
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### ● Operational precautions

- This apparatus is capable of purifying drinking water (such as tap water) through the purification cartridge and then generating electrolyzed water by electrolysis. Such electrolyzed water will have properties according to those specified in JIS T 2004 (Water Electrolyzer for Home Use).
- Since residual free chlorine was removed from electrolyzed hydrogen water and the clean water remaining in the body, these types of water may tend to contain many bacteria.  
At the use of the apparatus, run acidic water through it in the following way:

- To replace water remaining in the body and control calcium deposition, switch the water intake mode to “Acidic Water” and run water when you start using the apparatus every day, at your bedtime, and if you are not going to use the apparatus for six hours or more. (Touch “Acidic Water” on the touch screen to switch to it.)  
The duration of water running is estimated as shown in the table below.

### ■ Estimated duration of water running

At bedtime or when not used for six hours or more	About 5 sec
At start of everyday use	About 20 sec
After not used for a day	About 1 min
After not used for two days or more	About 3 min
After not used for a week	About 5 min
At first use or after purification cartridge replaced	About 5 min

After completing water running, close the purification handle and switch to electrolyzed hydrogen water or clean water for drinking. (Page 12)

\*For areas where water is hard, in addition to water running as in the left table, run acidic water for 30 seconds to one minute at your bedtime. This removes calcium deposits to prevent faults in the apparatus.

\*If the apparatus was not used for a month or more, we recommend replacing the purification cartridge.

- Use generated water as soon as possible after its generation. To store electrolyzed hydrogen water/clean water, contain it in a fridge with clean, well-closed containers, such as plastic bottles, and then drink it within two days.




## Installation Precautions

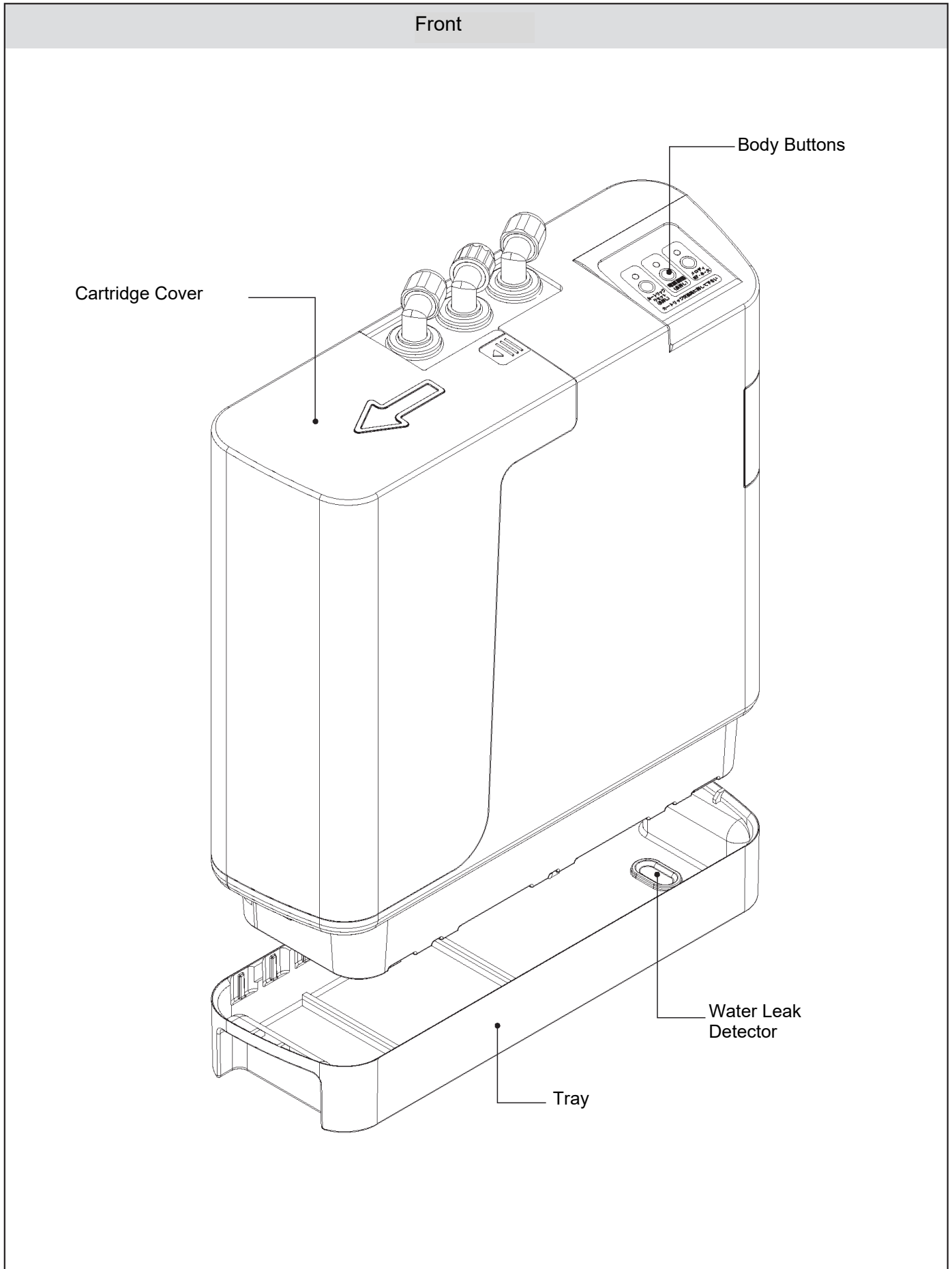
### ● Precautions for installation work

- Conduct all plumbing work according to the International Building Code, the waterworks law, and the ordinances of the state, county, and other municipalities.
- Plumbing work must be conducted by a legally qualified contractor (a plumbing contractor) according to relevant laws and regulations.
- If no outlets are grounded under the sink, you must ground any of them.  
\*Electrical works: 220 VAC outlet installation and type D (type 3) grounding
- For installation, deliver the separate *TRIM ION GRACIA Installation Manual* to a plumbing contractor and request that the contractor conduct the plumbing work.

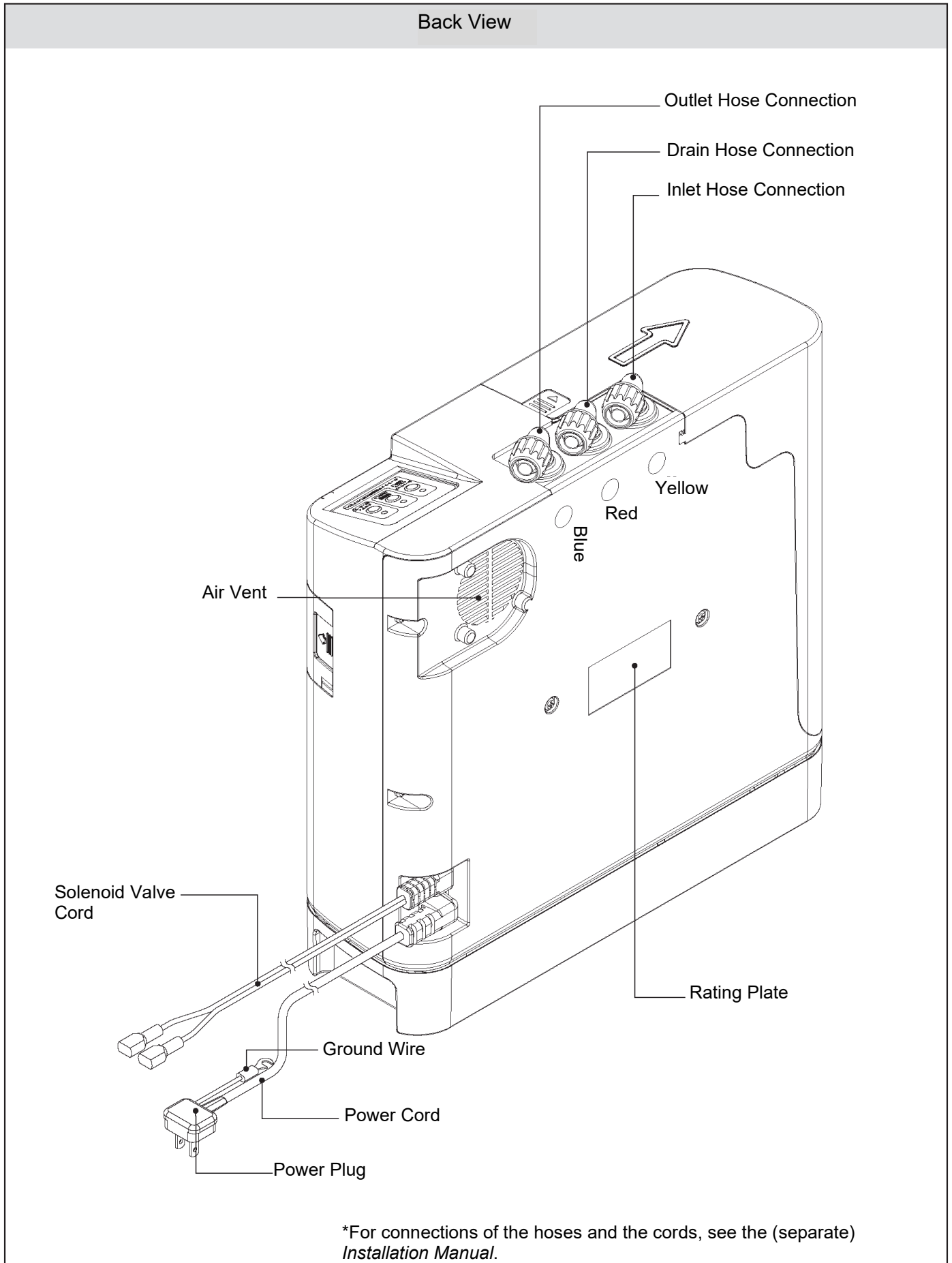
### ● Precautions for installation

- Install the apparatus on a flat and stable place.
- Do not apply voltage other than the indicated power supply voltage (220 VAC).
- Do not fix the power cord with staples (  ).
- Do not connect the power cord to an extension cord with many other cables plugged in.
- Check that the shower hose does not interfere with other piping or cables because the hose will move up and down.

# Parts Identification

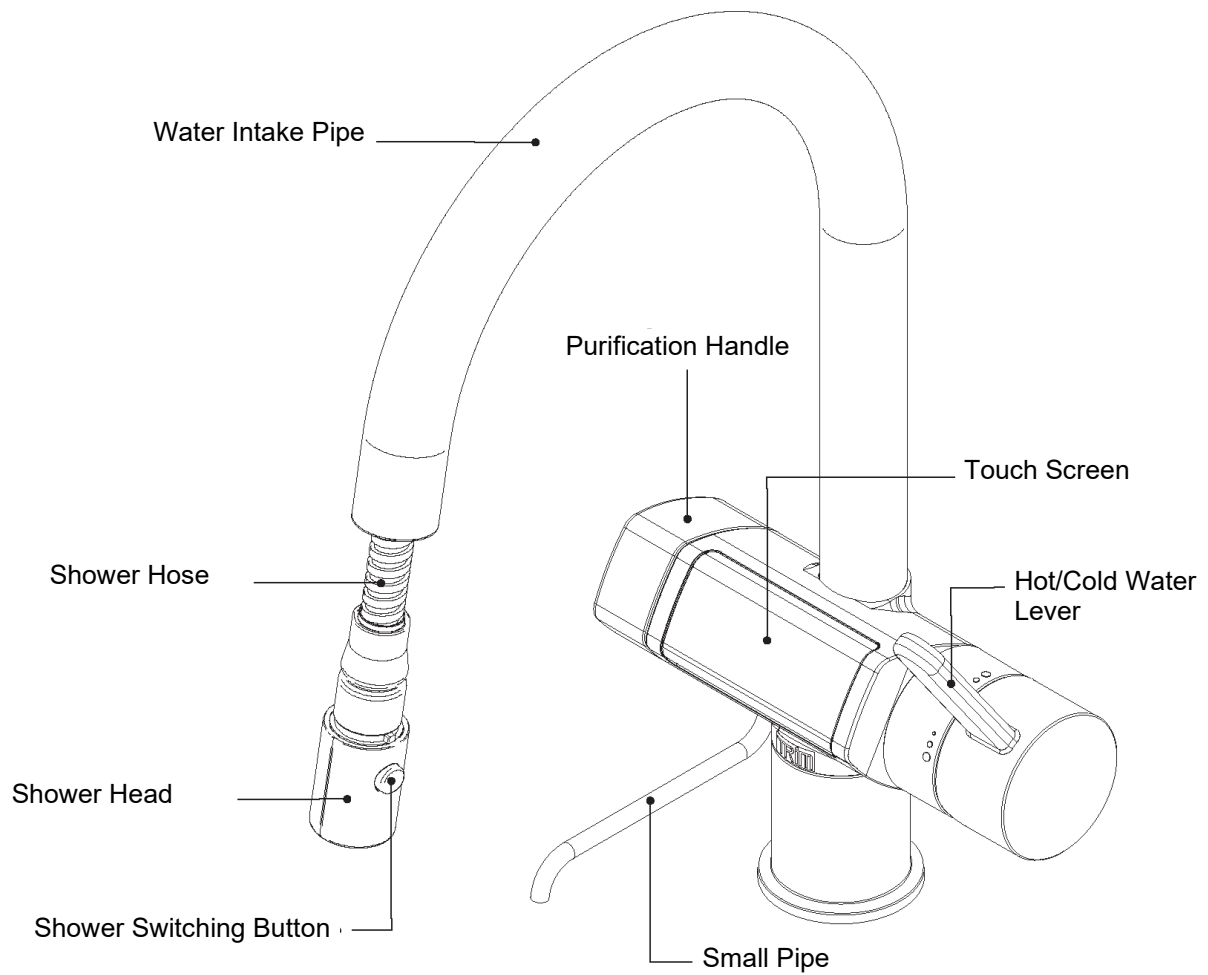


## Parts Identification



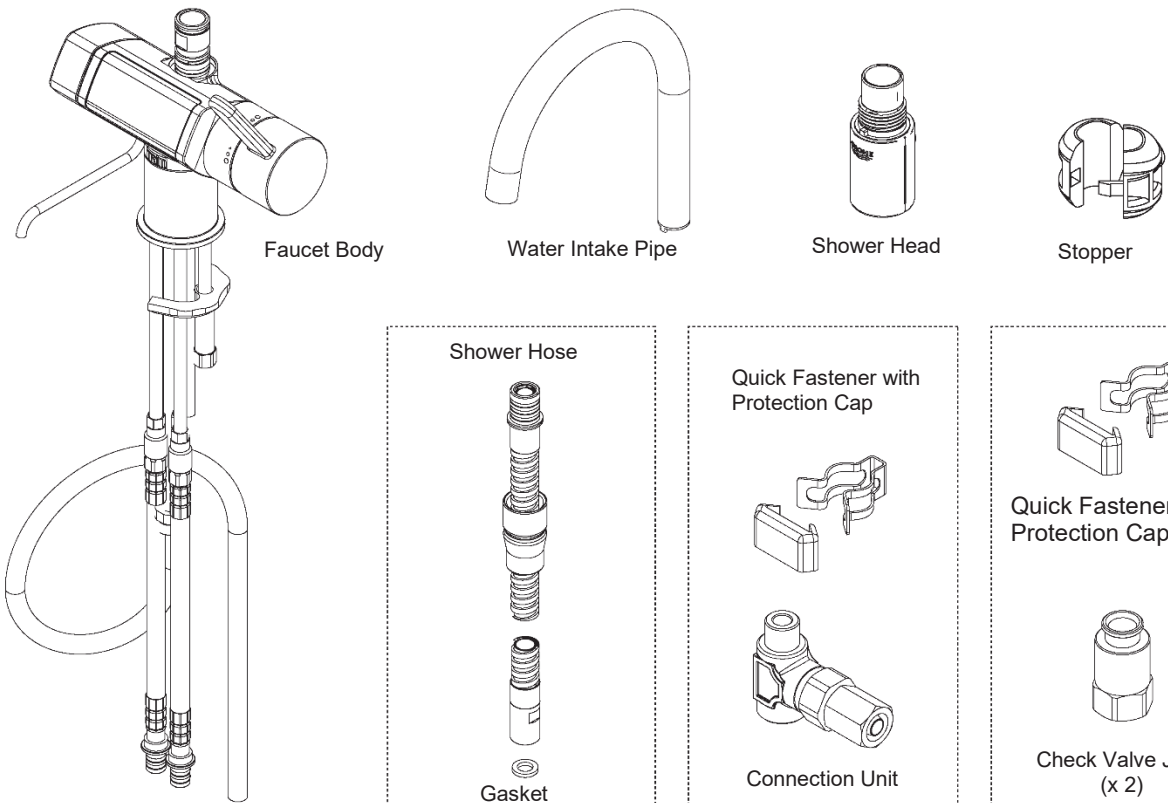
## Parts Identification

## Faucet

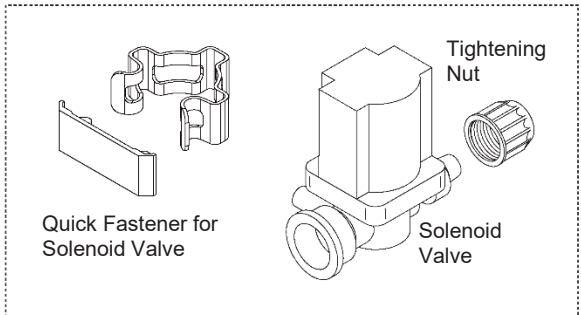
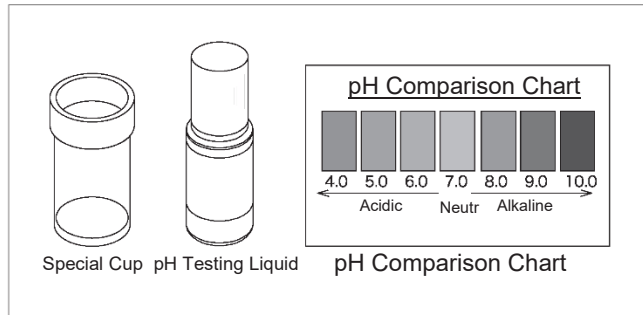


\*Attach the shower head with the shower switching button directed inwards.

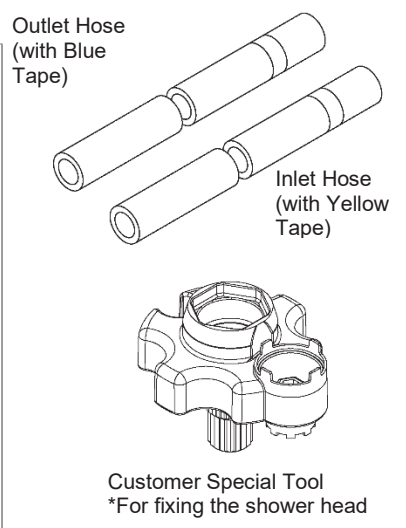
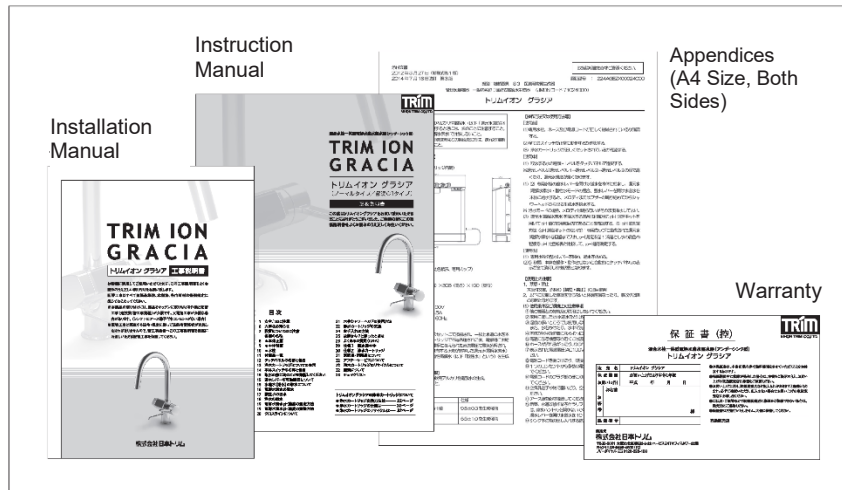
# Accessories



**pH Testing Kit**



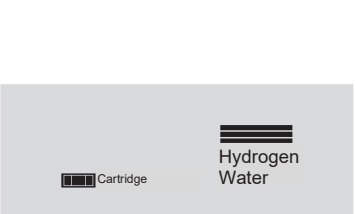
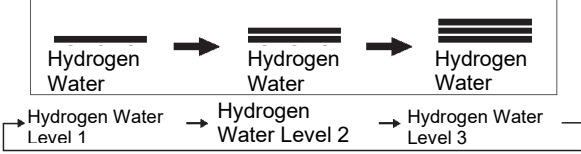

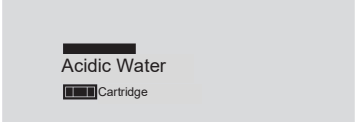


**Manual Set**

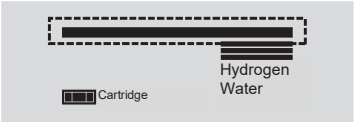
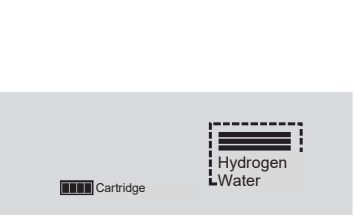
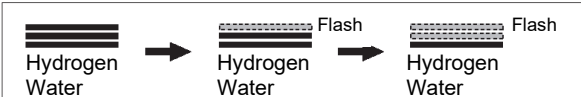
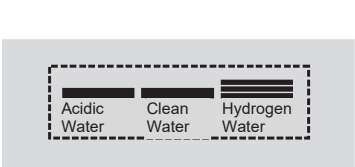


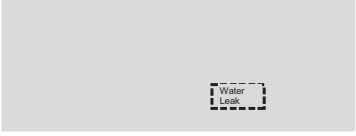
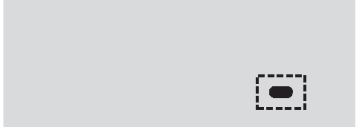
## Identification and Operation of Touch Screen

### ● Water intake mode switching buttons

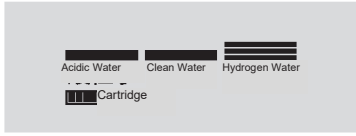



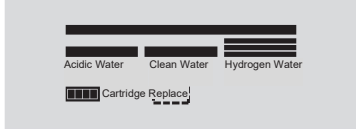

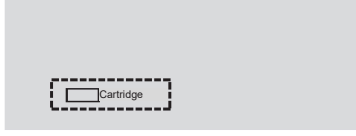
	<p style="text-align: center;"><b>Wait mode</b></p> <p>The touch screen will be completely turned off about five seconds after the screen is operated or the purification handle is closed, meaning the apparatus goes to the wait mode (all indications turned off).</p>
	<p style="text-align: center;"><b>Water intake mode selection</b></p> <p>Touch the center of the touch screen in the wait mode (all indications turned off) to display this screen. You can also display this screen by inserting the power plug into an outlet.</p>
	<p style="text-align: center;"><b>Hydrogen Water button</b></p> <p>Touch the button to take in electrolyzed hydrogen water. [The Hydrogen Water indication will turn blue.] The Hydrogen Water Level indication switches every time you press the button.</p> <div style="text-align: center;">  </div>
	<p style="text-align: center;"><b>Clean Water button</b></p> <p>Touch the button to take in clean water. [The Clean Water indication will turn green.] Tap water from which free chlorine residual and other additives are removed can be taken in.</p>
	<p style="text-align: center;"><b>Acidic Water button</b></p> <p>Touch the button to take in acidic water. [The Acidic Water indication will turn orange.] Use acidic water for washing dishes.</p>

### ● Status indications

	<p style="text-align: center;"><b>Hydrogen signal (A rough guide for hydrogen generation)</b></p> <p>The signal flashes depending on the concentration of dissolved hydrogen in electrolyzed hydrogen water during the intake of the water. The higher the concentration is, the faster the signal flashes.</p>
	<p style="text-align: center;"><b>Controlled electrolysis</b></p> <p>If electrolyzed hydrogen water or acidic water is used continuously, the level indication will flash. In this case, the Hydrogen Water Level will be lowered to control the overheating of the body.</p> <p style="text-align: center;">■ When water runs with Hydrogen Water Level 3</p> <div style="text-align: center;">  </div>
	<p style="text-align: center;"><b>Overheating suspension</b></p> <p>When electrolysis is conducted for a long time, all the Hydrogen Water, Clean Water, and Acidic Water indications may flash with a buzzer. In this case, close the purification handle to stop running water and wait for three minutes or more. Then, use the apparatus again. *If the same problem still happens immediately, contact the sales agent.</p>

	<p style="text-align: center;"><b>Water Leak</b></p> <p>If a water leak from the body under the sink is detected, the Water Leak indication will flash in red with a buzzer, stopping water running automatically. (Touch the center of the touch screen to stop the buzzer.) *The body may have errors. Contact the sales agent.</p>
	<p style="text-align: center;"><b>Body error</b></p> <p>If the body under the sink has errors, the lower right of the touch screen will flash in red with a buzzer. (Touch the center of the touch screen to stop the buzzer.) *The body may have errors. Contact the sales agent.</p>

**● Purification cartridge indications**

	<p style="text-align: center;"><b>Remaining cartridge</b></p> <p>The remaining purification cartridge is indicated by the amount of used purified water or the elapsed period from the start of use.</p> <table border="1" data-bbox="550 846 1465 1048"> <tr> <td colspan="5" style="text-align: center;">  </td> </tr> <tr> <td style="text-align: center;">0 liters</td> <td style="text-align: center;">Approx. 3000 liters</td> <td style="text-align: center;">Approx. 6000 liters</td> <td style="text-align: center;">Approx. 9000 liters</td> <td style="text-align: center;">Approx. 12,000 liters</td> </tr> <tr> <td style="text-align: center;">At start of use</td> <td style="text-align: center;">About 3 months</td> <td style="text-align: center;">About 6 months</td> <td style="text-align: center;">About 9 months</td> <td style="text-align: center;">About 12 months</td> </tr> </table> <p>*The remaining cartridge indication is reduced by the amount of used purified water or the elapsed period. (Page 22)</p>						0 liters	Approx. 3000 liters	Approx. 6000 liters	Approx. 9000 liters	Approx. 12,000 liters	At start of use	About 3 months	About 6 months	About 9 months	About 12 months
																
0 liters	Approx. 3000 liters	Approx. 6000 liters	Approx. 9000 liters	Approx. 12,000 liters												
At start of use	About 3 months	About 6 months	About 9 months	About 12 months												
	<p style="text-align: center;"><b>Cartridge replacement</b></p> <p>If the remaining cartridge runs out, "Replace" will flash in orange for about five minutes with a buzzer. Then, the indication will be turned on.</p> <div style="text-align: center;">  </div> <p>*When the amount of used water exceeds approximately 12,000 liters or about 12 months pass, the Cartridge Replacement indication will be shown. When the Replace indication flashes, replace the cartridge immediately. We recommend replacing the cartridge within two weeks, but this depends on the amount of used water. (Page 22)</p>															
	<p style="text-align: center;"><b>No cartridge</b></p> <p>If the purification cartridge of the body under the sink is removed, the remaining cartridge indication and "Cartridge" will flash. In this case, purified water does not flow out. *If the indications still flash though the purification cartridge is installed correctly, the purification cartridge or the body may have errors. (See page 25 for troubleshooting.)</p>															

## Identification and Operation of Body Buttons

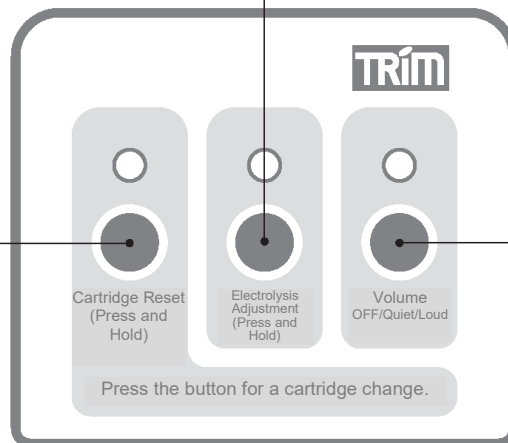
● The buttons are placed on the top of the body.

### Electrolysis

#### Adjustment button

When the pH of electrolyzed hydrogen water is extremely high or calcium in tap water is increased, press the button until the buzzer starts. (Press and hold it for about two seconds.)

Electrolysis adjustment lamp	Mode
Turned off	Normal electrolysis mode (Normal)
Turned green	Low electrolysis mode



### Cartridge Reset button

Press the button until the buzzer starts for a cartridge change. (Press and hold it for about two seconds.) Then, the cartridge reset lamp (in red) will be turned off. In addition, "Change" on the touch screen of the faucet will be turned off.

Cartridge reset lamp	Mode
Turned off	Normal
Flashing in red	Change notice



● After completing the installation, be sure to press the Cartridge Reset button before using the apparatus.

### Volume button

You can change the volume of a sound for taking in electrolyzed hydrogen water.


Volume lamp	Mode
Turned off	Silent
Turned green	Quiet volume
Turned orange	Loud volume

※ Loud volume (turned orange) is set initially.



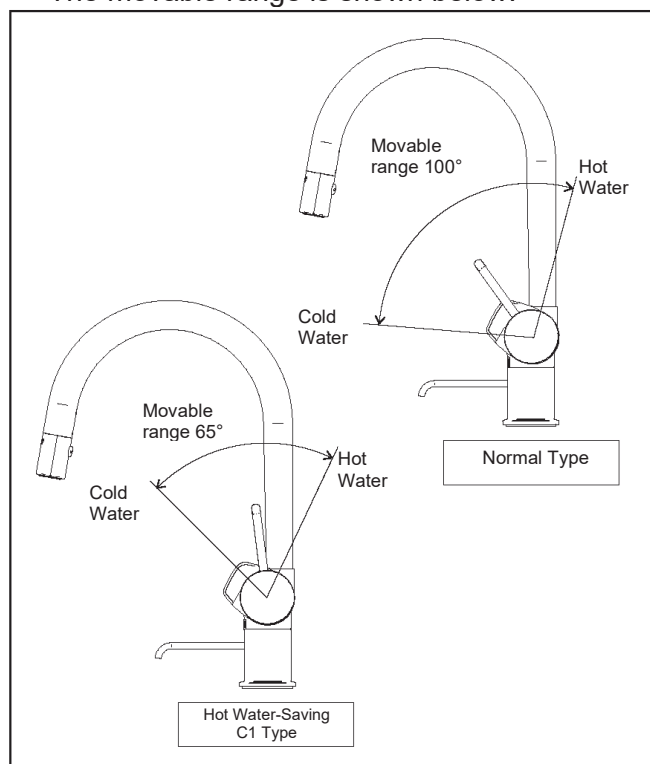
## Checks before Water Intake

- (1) Check that all pipes, hoses, and the power cord are connected correctly and securely.
- (2) Check that all the buttons operate correctly.
- (3) Check that the purification cartridge is installed and locked correctly.

 <b>Instruction</b>	<ul style="list-style-type: none"> <li>● <b>Be sure to read the “Safety Precautions” (page 1) before using the apparatus.</b></li> <li>● <b>Do not open the hot/cold water lever and the purification handle simultaneously. If you do so, tap water and purified water will be mixed to flow out.</b></li> <li>● <b>If you use purified water for the first time, run acidic water for about five minutes.</b></li> <li>● <b>You cannot switch water intake modes during purified water running. To switch the modes, close the purification handle and switch to the water intake mode that you want to apply.</b></li> <li>● <b>If electrolyzed hydrogen water or acidic water is used continuously, the level indication may be lowered.</b></li> </ul>
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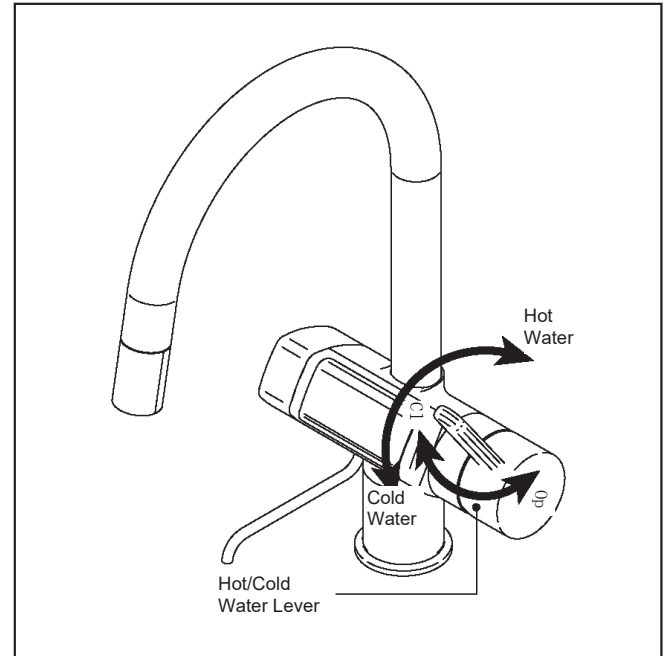
## Movable Range of Hot/Cold Water Lever


- The movable range of the hot/cold water lever depends on the types of the product.
- The movable range is shown below.



## Tap Water (Hot/Cold Water) Intake

- (1) Adjust the temperature of tap water. Turn the hot/cold water lever toward you to switch to cold water and turn it forward to switch to hot water.
- (2) Open the hot/cold water lever outwards to run water.
  - \* Do not open the purification handle simultaneously with this lever.
- (3) To stop using water, close the hot/cold water lever completely inwards.

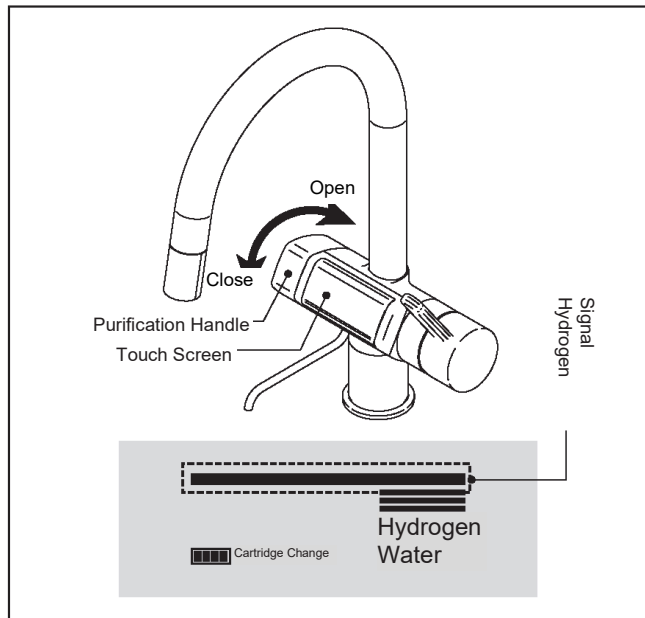


 <b>Instruction</b>	<ul style="list-style-type: none"> <li>● <b>Check that hot water has a suitable temperature before using it. Otherwise, high-temperature hot water may flow out, causing scalds.</b></li> <li>● <b>After you use high-temperature hot water, be sure to turn the hot/cold water lever to the cold water side and run water for a while before closing the faucet.</b></li> <li>● <b>Do not use hot water at a higher temperature than 60°C. Otherwise, faults will result.</b></li> </ul>
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## Taking in Electrolyzed Hydrogen Water

### ● Intake procedure for electrolyzed hydrogen water

- (1) Touch the touch screen of the faucet in the wait mode (all indications turned off) to display the water intake mode selection.
- (2) Touch the Hydrogen Water button on the water intake mode selection.



- (3) Select an Electrolyzed Hydrogen Water Level (from three levels) according to its application.

Indication	Applications	Estimated pH
 Hydrogen Water Level 3	For cooking, boiling, and removing scum	9.0-10.5
 Hydrogen Water Level 2	For drinking, coffee, tea, one-pot meals, boiling of rice, soup, etc.	8.5-9.9
 Hydrogen Water Level 1	For drinking the water for the first time	8.0-9.5

- ※ The pH is only a rough guide and varies depending on the water quality (due to areas, seasons, and temperature) and the flow of water running through the apparatus.
- (4) Turn the purification handle forward to open the faucet. Then, water runs through the body.
    - ※ Do not open the hot/cold water lever simultaneously with this handle.
  - (5) The apparatus sounds and the hydrogen signal (a rough guide for hydrogen generation) starts flashing.
    - ※ When a sound starts, stable electrolyzed hydrogen water can be taken in. Take in water from the shower head of the faucet.
  - (6) To stop running water, turn the purification handle completely toward you.

- (7) The touch screen will be completely turned off about five seconds after the screen is operated or the purification handle is closed, meaning the apparatus goes into the wait mode.


### ● How to drink electrolyzed hydrogen water and precautions

- Before using the apparatus, touch the Acidic Water button to run acidic water. The duration of water running is estimated as shown in the table below.

At bedtime or when not used for six hours or more	About 5 sec
At start of everyday use	About 20 sec
After not used for a day	About 1 min
After not used for two days or more	About 3 min
After not used for a week	About 5 min
At first use, or after purification cartridge replaced	About 5 min

After running water, touch the Electrolyzed Hydrogen Water button for drinking.

- Do not drink electrolyzed hydrogen water with a pH of 10 or more. For testing the pH of electrolyzed hydrogen water, see page 19.
- Drink approximately 500 to 1000 mL of the water per day.
- For taking medicines and formula for babies, use clean water rather than electrolyzed hydrogen water.
- Drink electrolyzed hydrogen water as soon as possible after taking it in. To store electrolyzed hydrogen water, contain it in a fridge with clean, well-closed containers, such as plastic bottles, and then drink it within two days.

 Instruction	<ul style="list-style-type: none"> <li>● <b>White impurities may float on electrolyzed hydrogen water or may be adhered to the containers, such as pots, where the water is contained. These impurities are deposited calcium in water and cause no problems for drinking. If you have any anxiety about them, lower the Hydrogen Water Level before using the apparatus.</b></li> </ul>
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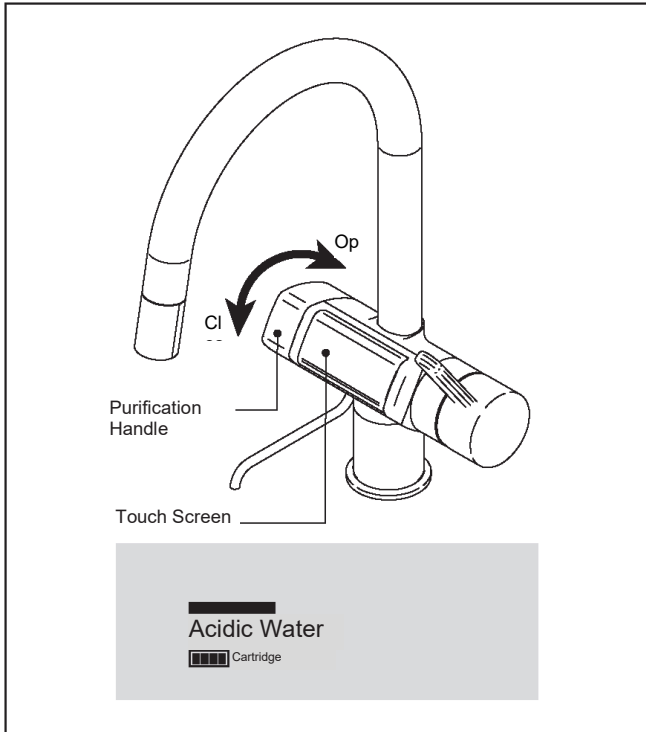
### Information

You cannot switch water intake modes when water is running through the apparatus. To switch the modes, close the purification handle and switch to the water intake mode you want to apply. (You can change the Hydrogen Water Level.)


## Taking in Acidic Water

### ● Intake procedure for acidic water

- (1) Touch the touch screen of the faucet in the wait mode (all indications turned off) to display the water intake mode selection.
- (2) Touch the Acidic Water button on the water intake mode selection.



- (3) Turn the purification handle forward to open the faucet. Then, water runs through the body.
  - ※ Do not open the hot/cold water lever simultaneously with this handle.
- (4) The buzzer starts.
  - ※ When the buzzer starts, stable acidic water can be taken in. Take it in from the shower head of the faucet.
- (5) To stop running water, turn the purification handle completely toward you.
- (6) The touch screen will be all turned off about five seconds after the screen is operated or the purification handle is closed, meaning the apparatus goes into the wait mode.

Indication	Applications	Estimated pH
 Acidic Water	For washing dishes	3.5-5.5

### ● Precautions for acidic water

- Use acidic water for washing dishes.
- Do not drink acidic water.
- To store acidic water, contain it in clean, well-closed containers, such as plastic bottles, and then use it within two days.

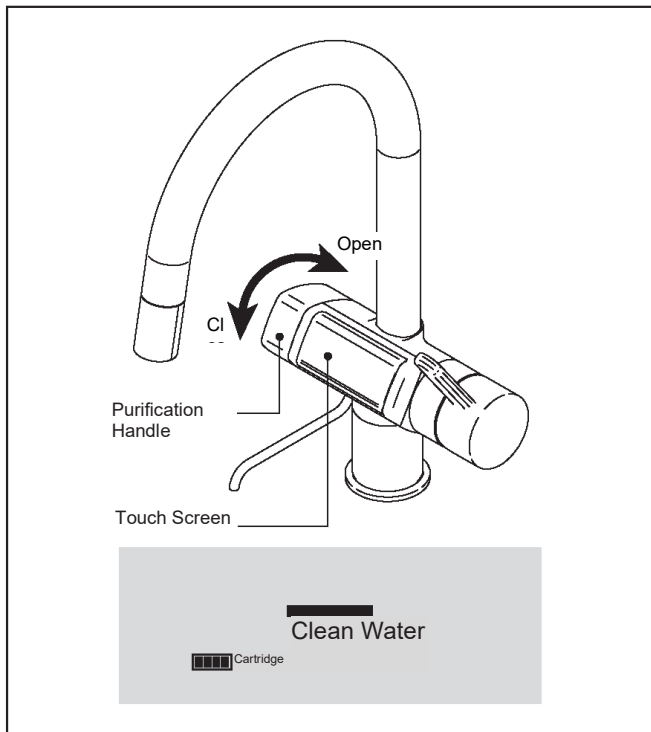
### Information

You cannot switch water intake modes when water is running through the apparatus. To switch the modes, close the purification handle and switch to the water intake mode you want to apply.


## Taking in Clean Water

### ● Intake procedure for clean water

- (1) Touch the touch screen of the faucet in the wait mode (all indications turned off) to display the water intake mode selection.
- (2) Touch the Clean Water button on the water intake mode selection.



- (3) Turn the purification handle forward to open the faucet. Then, water runs through the body.  
\*Do not open the hot/cold water lever simultaneously with this handle.
- (4) Two to three seconds after water starts flowing out from the shower head of the faucet, you will be able to take in stable clean water. Take it in from the shower head of the faucet.
- (5) To stop running water, turn the purification handle completely toward you.
- (6) The touch screen will be all turned off about five seconds after the screen is operated or the purification handle is closed, meaning the apparatus goes into the wait mode.

Indication	Applications
 Clean Water	For drinking, taking medicines, and formula for babies

### ● How to drink clean water and precautions

- Before using the apparatus, touch the Acidic Water button to run acidic water.  
The duration of water running is estimated as shown in the table below.

At bedtime or when not used for six hours or more	About 5 sec
At start of everyday use	About 20 sec
After not used for a day	About 1 min
After not used for two days or more	About 3 min
After not used for a week	About 5 min
At first use, or after purification cartridge replaced	About 5 min

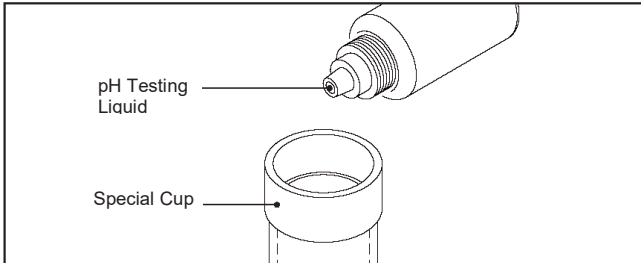
- After running water, touch the Clean Water button for drinking.
- Clean water is filtered tap water, containing a few impurities. It is not electrolyzed.
- Use it for taking medicines and formula for babies.
- Drink clean water as soon as possible after taking it in. To store clean water, contain it in a fridge with clean, well-closed containers, such as plastic bottles, and then drink it within two days.

### Information

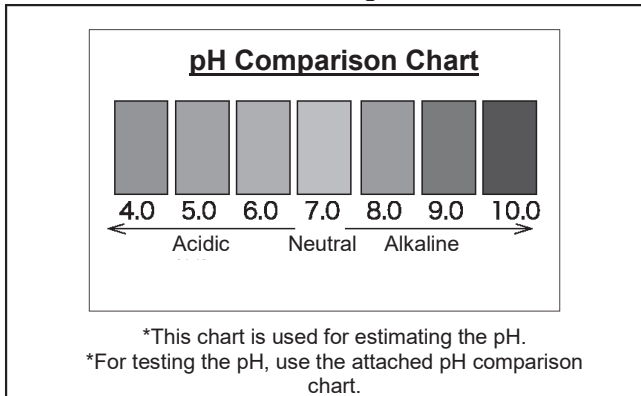
You cannot switch water intake modes when water is running through the apparatus. To switch the modes, close the purification handle and switch to the water intake mode you want to apply.

## pH Testing Procedure for Electrolyzed Hydrogen Water

- (1) Pour electrolyzed hydrogen water into the special cup until the water level reaches a scale of 80%.
- (2) Put a drop of the pH testing liquid into the special cup.



- (3) Compare the discolored electrolyzed hydrogen water with the pH comparison chart. Check that the water falls between 9.0 and 10.0 on the pH comparison chart. If the water is outside the range, adjust it according to the right pH Adjustment Procedure for Electrolyzed Hydrogen Water. Do not drink the water used for testing.



### Information

- You can drink electrolyzed hydrogen water with a pH of less than 10 and clean water.
  - The pH varies depending on the water quality (due to areas, seasons, and temperature) and the flow of water running through the apparatus. Test the pH at the first use of the apparatus and subsequently once a month or more to check that the pH of electrolyzed hydrogen water falls within the target range before drinking the water.
- (For the target pH, see page 16.)
- If you drink it for the first time, drink a small amount of water with Hydrogen Water Level 1.
  - Do not put the pH testing liquid into the eyes nor swallow it. To store the pH testing liquid, be sure to replace the cap and store the liquid in a place unreachable by infants. Do not use the liquid near fire.
  - When the purification cartridge is newly

installed, the pH may increase temporarily but this is not a fault. Check the pH about a week later.

## pH Adjustment Procedure for Electrolyzed Hydrogen Water

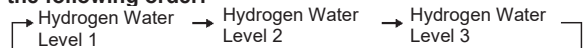
If the test shows that the pH does not fall between 9.0 and less than 10.0, adjust it according to the following procedure. Note that you must not drink water with a pH of 10 or more directly.

### When a pH is low

- ① Touch "Hydrogen Water" on the touch screen to raise the Hydrogen Water Level.

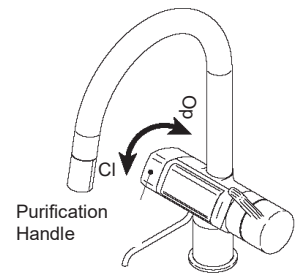


The Hydrogen Water Level switches in the following order:



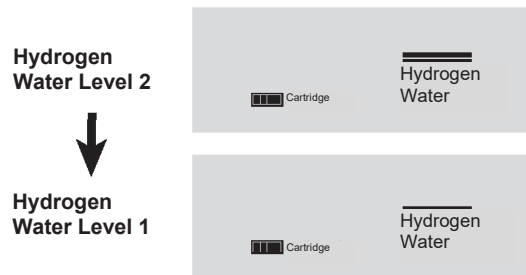
(When a pH is still low)

- ② Close the purification handle to reduce the flow of water running. Then, the pH will rise.



### When a pH is high

- ① Lower the Hydrogen Water Level.



## Crossline

Electrolyzed hydrogen water/acidic water is generated by electrolysis. In electrolysis, minerals in water are deposited on the electrodes, reducing the electrolysis capacity.

To make electrolyzed hydrogen water/acidic water with stable water quality available for a long period, this apparatus applies the Double Auto-Change Crossline Style, which switches the polarities of the electrodes and the valves of the water circuit regularly to keep the electrolysis capacity.

Crossline operating condition	Crossline operating period
When the intake of electrolyzed hydrogen water or acidic water is completed three times	About 5 sec or about 12 sec
When the intake of electrolyzed hydrogen water or acidic water is conducted for 20 minutes	About 5 sec or about 12 sec
When the water intake mode is switched from electrolyzed hydrogen water or acidic water to clean water	About 3 sec
When the water intake mode is switched from clean water to electrolyzed hydrogen water or acidic water	About 3 sec



Prohibition

- **Do not open the purification handle to run water through the body during crossline operation.**  
(Otherwise, water leaks from the body may result.)



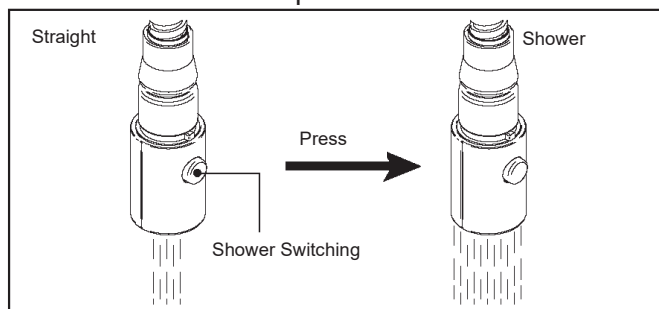
## How to Use the Faucet Shower Head

### ● Switching to the shower

Press the shower switching button on the shower head of the faucet to switch to the shower when water is running. To return to the straight stream, stop running the water.

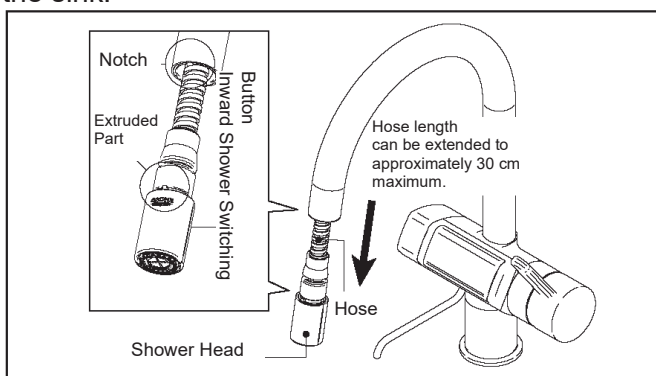
\*When the flow of water running is low, you may not switch even though you press the button.

\*If you want to control the splashing of water, adjust the flow of water running with the hot/cold water lever or the stopcocks.



### ● Extending the shower hose

You can use the shower head of the faucet by extending it. To do so, hold the shower head and pull down gently. The head can be extended to approximately 30 cm maximum. If you extend it forcibly, it will not be contracted, so pay attention to this. When the shower hose cannot be contracted, pull down on the hose gently under the sink.

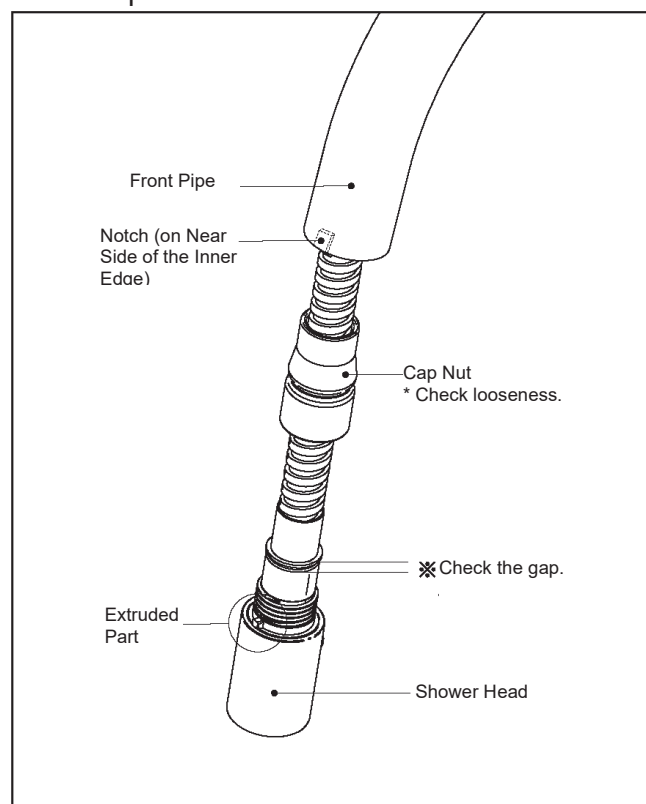


### ● Contracting the shower hose

To contract the shower hose, ensure that the extruded part of the shower head engages with the notch of the pipe with the shower switching button directed inward. The notch is placed on the near side of the inner edge of the front pipe. Move the shower head right and left with the extruded part directed toward you while pushing up the head to the pipe. When a click sounds, the hose is completely contracted.

\*Though a click sounds, the gap between the pipe and the shower head means the head may be loosely tightened or poorly inserted, so check this (\*marked in the figure below).

If the head is loosely tightened, tighten the cap nut. If the head is poorly inserted, insert it completely to the base of the hose and tighten the cap nut.



Instruction

- Do not extend the shower head excessively. Otherwise, it will be hard to contract the hose or it will break, causing water leaks.
- Do not pour water directly onto the opening of the water intake pipe of the faucet. Otherwise, water leaks may result under the sink.
- Do not leave the shower head or the hose soaking in water. Otherwise, water may flow backward.
- Do not pour water or hot water directly onto the touch screen of the faucet.
- When you use the shower hose, drops of water may be attached extensively to the hose depending on your use. If you contract the shower hose as it is, drops of water may fall under the sink. Check that drops of water do not fall under the sink regularly.

## Replacing the Purification Cartridge

- The product name of a spare purification cartridge is the Premium Micro Carbon UMS α Cartridge (page 31).

The criteria for replacing the purification cartridge are as follows. Replace the purification cartridge if any of them are applicable.

(i) The cartridge is used for about 12 months (for an amount of 32 liters per day).

(ii) The amount of used purified water reaches 12,000 liters. \*1

(iii) The flow of purified water running is extremely low. \*2

(iv) The apparatus is not used for one month or more. \*3

- “Purified water” is a general term for electrolyzed hydrogen water, acidic water, and clean water, meaning filtered water through the purification cartridge.

※1 The amount of used purified water means the total of the amounts of water intake from the special faucet and drainage from the small pipe.

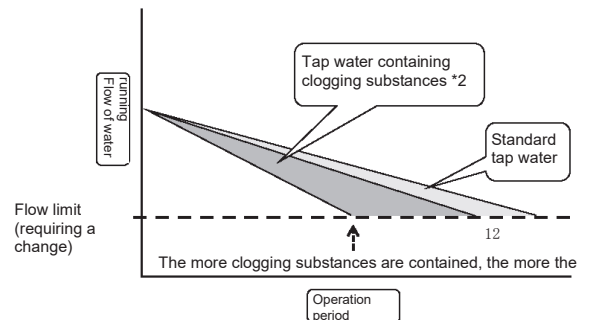
When (i) or (ii) is applicable, whichever is the earlier, the touch screen shows the Replace Cartridge indication in orange to notify you to replace the purification cartridge. Prepare a spare purification cartridge (sold separately) (page 31).

Replace the purification cartridge immediately within two weeks. (For the remaining cartridge indication, see page 13.)

※2 The flow of water running may drastically decrease to the limit depending on the water quality, and then the cartridge is required to be replaced. (See the right figure.)

If tap water contains many clogging substances (such as impurities and iron rust), in particular, the flow of water running drastically decreases. In this case, the warning valve of the body will be activated, spouting water from the small pipe along with a warning buzzer. However, this may be unclear because water normally flows out from the small pipe when electrolyzed hydrogen water or acidic water is used. If you check this, use clean water.

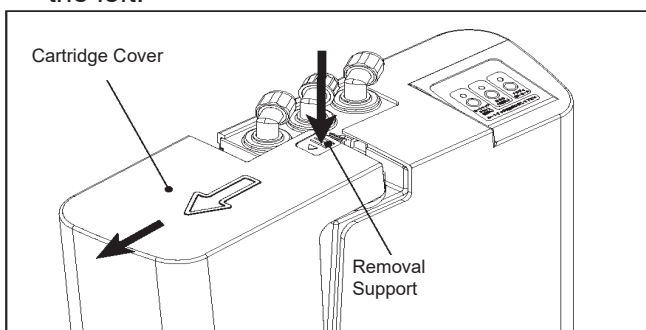
※3 When purified water is not used for a month or more, residual free chlorine has been removed from electrolyzed hydrogen water and the clean water remaining in the body. Thus, these types of water in the purification cartridge may change in quality, such as containing many bacteria, so we recommend replacing the purification cartridge with a new one.



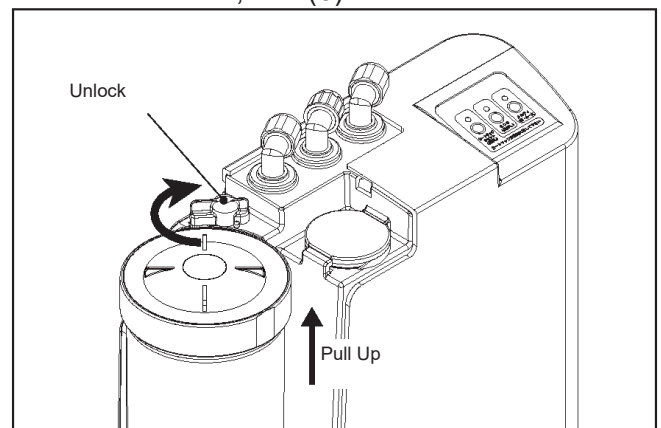
### ● Replacing the purification cartridge

When the remaining cartridge indication on the touch screen runs out and “Replace” flashes, replace the purification cartridge of the body under the sink in the following procedure. In this case, the Cartridge Reset button on the body also flashes.

- (1) Close the purification handle and the hot/cold water lever to stop water running.
- (2) Remove the cartridge cover by pressing the removal support on the cover and shifting it to the left.

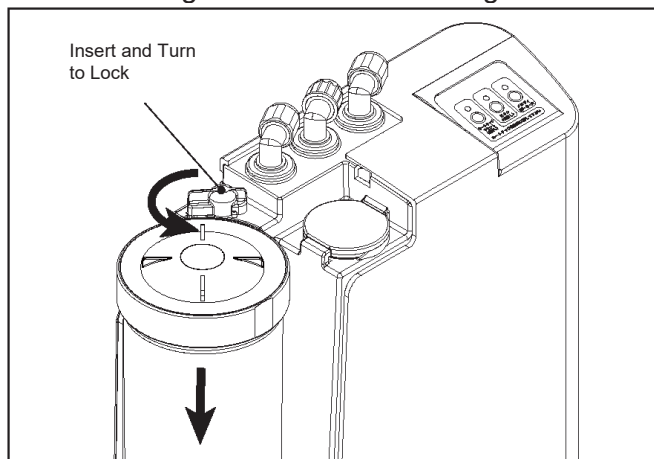


- (3) Turn the cartridge lock to unlock the purification cartridge and pull up the cartridge. Water leaking from the bottom of the purification cartridge is drained into the tray of the bottom of the body. For treating the drained water, see (6).

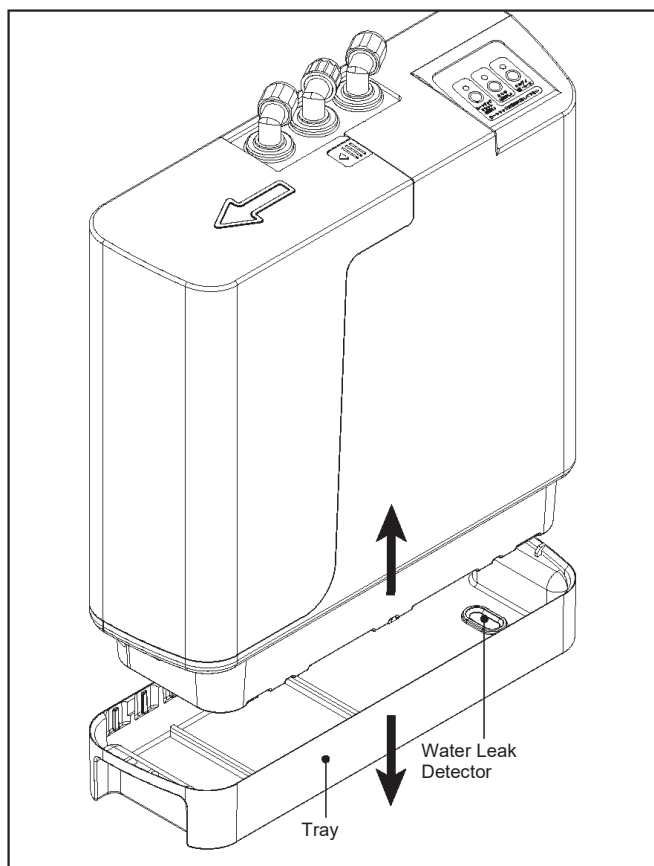




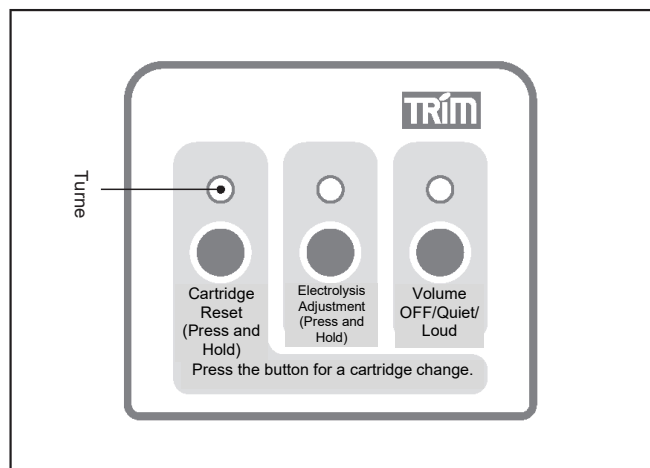
- (4) Insert a new purification cartridge completely into the cartridge holder of the body and turn the cartridge lock to fix the cartridge.



- ※ After inserting the purification cartridge, be sure to lock it. Otherwise, water leaks will result. If the cartridge is locked poorly, the cartridge cover cannot be attached correctly.
- (5) Ensure the bottom of the cartridge cover engages with the bottom of the body, and then shift the top of the cover to the right.
- (6) Remove the tray on the bottom of the body and dispose of any remaining water in it. Then, put the body on the tray.



- (7) Press and hold the Cartridge Reset button on the body (for about two seconds) until the buzzer starts. The cartridge reset lamp on the body will be turned off, and "Replace" on the touch screen will also be turned off.



- (8) Before using the apparatus, touch the Acidic Water button on the touch screen to run acidic water for about five minutes.
- After the purification cartridge is replaced, test the pH before using the apparatus. (For testing procedure, see page 19.)  
When the purification cartridge is newly installed, the pH may increase temporarily but this is not a fault. Check the pH again about a week later.

#### ● When not using the apparatus for a long period

- Be sure to close the stopcocks, the hot/cold water lever, and the purification handle to stop the running water.
- Disconnect the power plug of the body from the outlet under the sink.

When the purification cartridge is replaced or the apparatus is not used for a long period, consult the sales agent.

#### Water leak detector

If water is collected in this hollow, the detector plate of the body responds to start the buzzer. Completely wipe water in the hollow.

- ※ If the detector plate is accidentally wet and water does not flow out, disconnect the power plug from the outlet for about 15 seconds. By doing so, the solenoid valve will be released, and water will flow out.

## Care Procedure

- To wipe the faucet, the touch screen, and the body, dampen a soft cloth with water or tepid water and wring it. Finally, wipe them with a dry soft cloth. (Do not pour water or hot water directly onto the faucet.)
- Do not use cleaning agents, bleaching agents, alcohol, cleansers, benzene, thinner, insecticides, and other chemicals. Otherwise, deformation, discoloration, or cracking will result.
- When dirt on the dishes or a cleaning agent is attached to the end of the shower head, remove it from its exterior and run water for about two to three minutes to clean its interior. In addition, switch to the shower and run water.
- When the shower head is clogged, the amount of water intake decreases or water splashes. Clean it regularly in the following procedure.

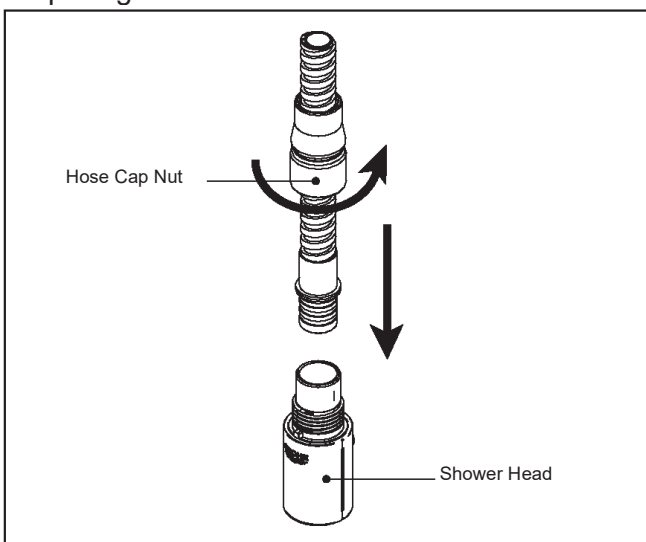


Instruction

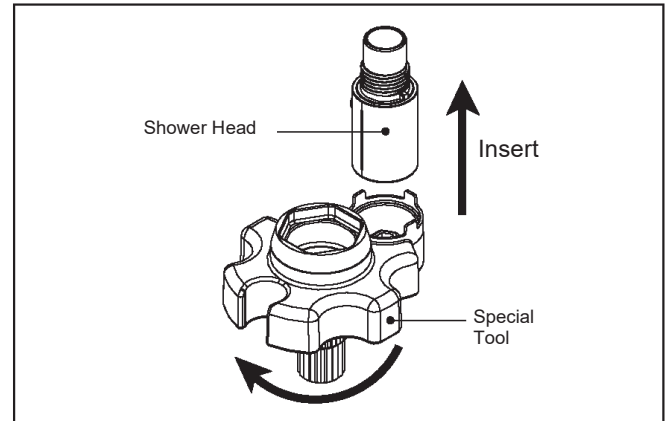
- **Check that water does not leak around the piping under the sink regularly. Inspect the piping to prevent household goods from being wet due to water leaks caused by the deterioration or the friction of parts (about once a month).**

### ● How to clean the shower head

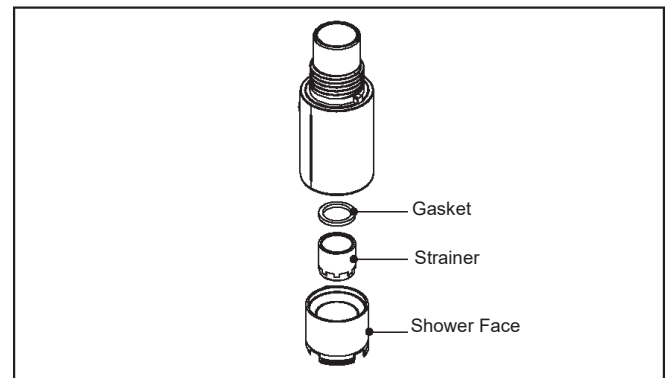
- (1) Extend the shower hose. Then, loosen the hose cap nut and remove the shower head by pulling it down.



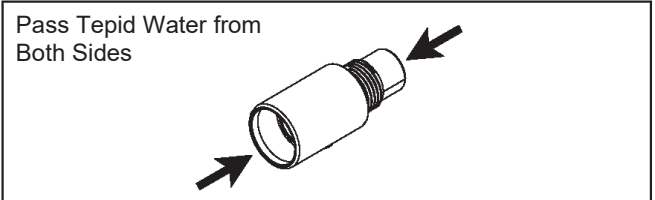
- (2) Insert the special tool into the groove of the removed shower head and turn the tool gently in the direction of the arrow in the figure.



- (3) Remove the shower face from the shower head and wash the strainer and other parts with a brush to remove dirt and lime scale.



- (4) Pass tepid water through the shower head, from both sides without the shower face to remove dirt and lime scale.



- ※ Once care is completed, assemble the parts in reverse order. Tighten the shower face to a suitable strength with the special tool. If it is loosely or excessively tightened, the shower switching button will not return, so pay attention to this. If the shower switching button cannot be returned, loosen and tighten the shower face again.

## Troubleshooting

When a problem is not resolved by troubleshooting

Disconnect the power plug from the outlet, and then connect it again 15 seconds later.  
If the same problem still happens, contact the sales agent.

In the case of faults, check the following before requesting a repair.

When a problem cannot be solved by the following troubleshooting or the body is found to have faults, stop using the apparatus and disconnect the power plug from the outlet. Then, contact the sales agent.

Do not disassemble or repair the apparatus by yourself.

	<b>Problem</b>	<b>Possible cause</b>	<b>Troubleshooting</b>
<b>Indication (Touch screen)</b>	<b>The touch screen is not turned on or cannot be operated.</b>	The power plug is disconnected from the outlet.	Connect the power plug.
	<b>The water intake mode indication flashes (with a buzzer).</b>	The flow of water running is outside the target range.	Close the purification handle a little.
	<b>The Hydrogen Water Level indication flashes.</b>	Water is running continuously through the apparatus.	This is not a fault. The level is lowered to control the overheating of the body. Stop running water and wait a minute (page 12).
	<b>All the water intake mode indications flash (with a buzzer).</b>	Water is running continuously through the apparatus for a long time.	This is not a fault. The apparatus is in the overheating suspension mode. In this case, stop using the apparatus and wait for three minutes or more. Then, use the apparatus again (page 12).
	<b>The Water Leak indication flashes in red (with a buzzer).</b>	Water remains in the tray. (Touch the touch screen to stop the buzzer.)	Water may leak from the body. Consult the sales agent.
	<b>The lower right of the touch screen flashes in red (with a buzzer).</b>	The body may have errors. (Touch the touch screen to stop the buzzer.)	Consult the sales agent.
	<b>The Cartridge indication flashes.</b>	The purification cartridge is not installed correctly.	Remove and install the purification cartridge.
		The purification cartridge may have errors.	Consult the sales agent.
	<b>The remaining cartridge decreases though purified water is not used.</b>	The remaining cartridge is indicated by the flow of water running or the elapsed period. A scale of it decreases about every three months though the apparatus is not used.	Check the remaining cartridge (page 13).
	<b>The touch screen responds slowly.</b>	The crossline is operating.	Responses from the touch screen become slow during crossline operation, and this is not a fault (page 20).
	<b>The touch screen unintentionally switches or cannot be operated.</b>	Water is poured on the touch screen.	Wipe water with a soft cloth.
	<b>The touch screen is not turned on (in operation).</b>	Electrolyzed hydrogen water/acidic water runs continuously for two hours or more.	This is not a fault. Touch the touch screen or stop running the water. (The apparatus has automatically stopped electrolysis and is in the wait mode due to continuous water running for two hours.)

Problem		Possible cause	Troubleshooting
Faucet	<b>Water running is not stopped soon after the purification handle is closed.</b>	Water may flow out from the faucet for a while after it is stopped (until the water pressure decreases) because of the structure of the apparatus.	This is not a fault.
		If water running is not stopped for a long time, gaskets and other similar parts may deteriorate.	Close the stopcocks and consult the sales agent.
	<b>Water running is not stopped though the hot/cold water lever is closed.</b>	It is remaining water in the shower head.	This is not a fault.
		The open/close valve may have errors.	Close the stopcocks and consult the sales agent.
	<b>Water (hot water) does not run or does so poorly.</b>	Tap water is cut off or frozen.	Wait for water to start running.
		The stopcocks are closed.	Open the stopcocks.
		The shower head is clogged.	Clean it (page 24).
		Water pressure is extremely low.	Consult the sales agent.
	<b>Purified water does not run or does so poorly.</b>	Tap water is cut off or frozen.	Wait for water to start running.
		The stopcocks are closed.	Open the stopcocks.
		The shower head is clogged.	Clean it regularly (page 24).
		Water remains in the tray.	Water may leak from the body. Close the stopcocks and consult the sales agent.
	<b>Only high-temperature hot water flows out.</b>	The cold water stopcock is closed.	Open the cold water stopcock.
	<b>Only tepid hot water flows out.</b>	The hot water stopcock is closed.	Open the hot water stopcock.
		Water is not sufficiently heated in the water heater.	Check the set temperature and the operation of the water heater.
	<b>Temperature cannot be adjusted well.</b>	The cold and hot water stopcocks are closed.	Adjust the flow of water running with the cold and hot water stopcocks.
		Water is not sufficiently heated in the water heater.	Check the set temperature and the operation of the water heater.
		The shower head is clogged.	Clean it (page 24).
	<b>Water splashes from the shower head.</b>	The flow of water running is extremely high.	Adjust the flow of water running with the hot/cold water lever or the stopcocks.
		The wash shower head is clogged.	Clean it regularly (page 24).
<b>Water leaks from the faucet and piping.</b>	The connections may be loosened or the gaskets may deteriorate.	Close the stopcocks and consult the sales agent.	
<b>The water intake cannot be switched between the shower and the straight stream though the shower switching button is pressed.</b>	The shower face may be loosened.	Tighten the shower face again with the special tool (page 24).	
	To switch from the shower to the straight, stop running water.	This is not a fault.	
	To switch from the straight to the shower, increase the flow of water running.	This is not a fault.	
<b>The shower hose is hard to extend.</b>	The shower hose under the sink may be caught by something.	Check the shower hose under the sink.	

	<b>Problem</b>	<b>Possible cause</b>	<b>Troubleshooting</b>
<b>Others</b>	<b>Impurities are contained in water that is taken in.</b>	The shower head is dirty.	Clean it regularly (page 24).
	<b>Water leaks from the body.</b>	The hoses are not connected correctly.	Check the hoses under the sink.
		The purification cartridge is not installed correctly.	Remove and install the purification cartridge.
		The body may have errors.	Close the stopcocks and consult the sales agent.
	<b>The pH of electrolyzed hydrogen water is low.</b>	The pH is not adjusted correctly. It may not be adjusted correctly depending on the water quality.	For adjustment procedures, see page 19. If you cannot adjust it, consult the sales agent.
	<b>Water has an odor or a bad taste.</b>	A long period has passed since the previous use. Water that remained in the body was not replaced at the start of use.	Run acidic water through the apparatus. For the estimated duration of water running, see page 6.
		Water is acidic.	Check the indication on the touch screen.
		The pH of electrolyzed hydrogen water is 10 or more.	Lower the Hydrogen Water Level.
		The purification cartridge is required to be replaced.	Replace the purification cartridge (pages 22 and 23).
	<b>White impurities float on electrolyzed hydrogen water or are adhered to the containers, such as pots, where the water is contained.</b>	See the information on the right.	These impurities are calcium contained in electrolyzed hydrogen water. They cause no problems for drinking. If you have any anxiety about them, lower the Hydrogen Water Level (page 16).
	<b>An unusual sound is heard from the body though it is not used.</b>	The operation of the solenoid valve is automatically checked once a month.	This is not a fault.
	<b>Water flows out from the small pipe during water purification.</b>	Water may flow out a little due to the structure of the apparatus.	This is not a fault.
	<b>An unusual sound is heard when the purification handle is opened/closed.</b>	A sound of air bleeding from the apparatus is heard when the handle is opened.	This is not a fault.
		The crossline may operate for wash when the handle is closed.	This is not a fault. It is a sound of crossline operation (page 20).
	<b>Water does not flow out though the purification handle is turned.</b>	The connection cord is not plugged into the body securely.	Check the connection cord under the sink.
The solenoid valve cord is not wired nor connected correctly.		Check the solenoid valve cord under the sink.	
The hoses are bent.		Check the hoses under the sink.	
The purification cartridge is not installed correctly.		Install the purification cartridge correctly.	
The faucet or the solenoid valve may have errors.		Close the stopcocks and consult the sales agent.	

## FAQ

Question	Answer
Why is the pH of electrolyzed hydrogen water not raised though Hydrogen Water Level 3 is set?	Adjust the pH according to the pH Adjustment Procedure for Electrolyzed Hydrogen Water. (For adjustment procedures, see page 19.)
Why are the sounds and buzzers not activated though the purification handle is opened and water runs through the apparatus?	If the flow of water running through the apparatus is extremely low, electrolysis is not conducted. Open the stopcocks to increase the flow of water running through the apparatus.
Can the apparatus apply hot water?	Use water at a lower temperature than 35°C for electrolyzed hydrogen water, acidic water, and clean water. Use water at a lower temperature than 60°C for tap water (hot/cold water).
How long can electrolyzed hydrogen water be stored?	To store the water, contain it in a fridge with clean, well-closed containers, such as plastic bottles and then drink it within two days.
How much does the amount of hydrogen decrease in electrolyzed hydrogen water when the water is stored.	To store the water, contain it in a fridge with clean well-closed containers, such as plastic bottles, and then drink it within two days. After a day, the amount of hydrogen will decrease to approximately 70% of that at generation.
Will the hydrogen in electrolyzed hydrogen water disappear if the water is boiled?	Hydrogen will drastically decrease because it disappears on contact with air.
Which type of water can I use for forming ice?	Use clean water if you form ice with an automatic ice maker. If you do so with an ice tray, use electrolyzed hydrogen water.
Which type of water can I use for taking vitamin supplements?	Since vitamin supplements are not pharmaceuticals, use electrolyzed hydrogen water or clean water. However, you must follow the supplement's direction.
Can I use electrolyzed hydrogen water for drinking water for pets and fish tanks.	Do not use electrolyzed hydrogen water for these purposes because the water is applicable to humans. Use clean water from which impurities are removed.
How much water can the purification cartridge purify?	The purification cartridge is found to be capable of purifying 12,000 liters of water. Replace the purification cartridge when it is required to be replaced. However, the cartridge may be required to be replaced at a lower amount than 12,000 liters depending on the water quality (page 22).
How can I dispose of a purification cartridge?	Follow the classification of waste in your area. The cartridge consists of outer plastic and inner activated carbon.
Can the apparatus apply groundwater?	It may not be used. Request that a water quality analysis institution, such as the public health center, conduct a water quality test, checking whether or not the groundwater can be drunk before using it.
My radio makes noise.	Your radio may make noise when the apparatus is being used. Keep your radio away from the apparatus.



## Specification 1. Body of Apparatus

**General name:** Continuous Water Electrolyzer

**Product name:** TRIM ION GRACIA

**Water supply fitting certificate for the body (including the special faucet):**

Certification code: W074-20037-227

(Japan Electrical Safety & Environment Technology Laboratories)

**Generated water intake style:** Special faucet style

**Rated voltage:** 220 VAC

**Rated frequency:** 50-60 Hz

**Rated current:** 2.5 A AC

**Rated electrolysis voltage:** 50 VDC (MAX)

**Standby power:** Approx. 1.1 W

**Power consumption:** Approx. 300 W

**Electrolytic baths:** 4 (8 cells)

**Electrodes:** 5 platinum-coated electrodes

**Electrode life:** 1400 hours for electrolysis

(depending on conditions such as the amount of used water and the water quality)

**Rated water intake (for a flowing water pressure of 160 kPa):**

Electrolyzed hydrogen water: Approx. 4 L/min (MAX)

Acidic water: Approx. 4 L/min (MAX)

Clean water: Approx. 5 L/min (MAX)

**Intake and drain ratio (for a flowing water pressure of 100 kPa):** About 5:1

**Body-operating piping (hydrostatic) water pressure:**

50 kPa (minimum operating water pressure) to 700 kPa

**Body-operating water temperature:** Lower than 35°C

**Body weight:** Approx. 5 kg

**Power cord length:** Approx. 2.6 m

**Body size:** 310 (W) x 329 (H) x 100 (D) mm

**Faucet size:** 178 (W) x 371 (H) x 249 (D) mm

**Electrolytic tank washing style:**

Double Auto-Change Crossline Style

**Power circuit:** Switching regulator control system

**Body protection devices:** 8 A fuse (mounted on the substrate)

Faucet flow regulating valve

Safety relief valve (for prevention of excessive water pressure)

Constant current control circuit (an overcurrent prevention device)

Overheating prevention device

Water leak detector

The specifications of this product are subject to change without prior notice, so these specifications may be different from those of the actual product. Thank you for understanding.

**Manufactured by:**

**Nihon Trim Electric Machinery Co., Ltd.**

1-5-2 Hotarugaoka, Nankoku-shi, Kochi-ken 783-0060

JAPAN

## Specification 2. Purification Cartridge

<b>Product name</b>	Premium Micro Carbon UMS α Cartridge
<b>Material</b>	ABS resin
<b>Filter media</b>	Nonwoven fabric, activated carbon, polyethylene, and polypropylene
<b>Filtration flow (in the Clean Water mode)</b>	4 L/min (maximum 6 L/min)
<b>Minimum operating flowing water pressure</b>	50 kPa
<b>Purification capacity</b>	See "Purification capacity" below.
<b>When to replace the purification cartridge</b>	About 12 months later (for approximately 32 liters per day) *1 Total amount of used water: Approximately 12,000 liters The touch screen shows "Replace" in orange as notification to replace the cartridge (page 22).
<b>Precautions</b>	See "Safety Precautions" and "Important Information" in this manual (pages 1-6).
<b>Operating water temperature</b>	Lower than 35°C
<b>Non-filtered substances</b>	Iron, heavy metals (such as silver and copper), and salt (seawater) dissolved in water

- ※1 The cartridge may be required to be replaced much earlier depending on the amount of used water, the water quality, and water pressure. (Page 22)  
Though the amount of used water does not reach 12,000 liters, the message will be shown after 12 months pass.

### Purification capacity

Free chlorine residual	(Total filtered water: 12,000 liters,	filtration rate: 80%, shown in a JIS S 3201 test)
Impurities	(Total filtered water: 12,000 liters,	50% of a filtration flow, shown in a JIS S 3201 test)
Chloroform	(Total filtered water: 12,000 liters,	filtration rate: 80%, shown in a JIS S 3201 test)
Bromodichloromethane	(Total filtered water: 12,000 liters,	filtration rate: 80%, shown in a JIS S 3201 test)
Dibromochloromethane	(Total filtered water: 12,000 liters,	filtration rate: 80%, shown in a JIS S 3201 test)
Bromoform	(Total filtered water: 12,000 liters,	filtration rate: 80%, shown in a JIS S 3201 test)
Tetrachloroethylene	(Total filtered water: 12,000 liters,	filtration rate: 80%, shown in a JIS S 3201 test)
Trichloroethylene	(Total filtered water: 12,000 liters,	filtration rate: 80%, shown in a JIS S 3201 test)
Total trihalomethane *2	(Total filtered water: 12,000 liters,	filtration rate: 80%, shown in a JIS S 3201 test)
CAT (an agricultural chemical) *3	(Total filtered water: 12,000 liters,	filtration rate: 80%, shown in a JIS S 3201 test)
2-MIB (moldy odor) *4	(Total filtered water: 12,000 liters,	filtration rate: 80%, shown in a JIS S 3201 test)
Solubility lead	(Total filtered water: 12,000 liters,	filtration rate: 80%, shown in a JIS S 3201 test)
1,2-DCE *5	(Total filtered water: 12,000 liters,	filtration rate: 80%, shown in a JIS S 3201 test)
Benzene	(Total filtered water: 12,000 liters,	filtration rate: 80%, shown in a JIS S 3201 test)
Geosmin (moldy odor)	(Total filtered water: 12,000 liters,	filtration rate: 80%, shown in a JIS S 3201 test)
Anionic surfactant	(Total filtered water: 12,000 liters,	filtration rate: 80%, shown in a JIS S 3201 test)
Phenol	(Total filtered water: 12,000 liters,	filtration rate: 80%, shown in a JIS S 3201 test)
PFOS and PFOA *6, 7	(Total filtered water: 12,000 liters,	filtration rate: 80%, shown in a JWPAS B.210 test)
Iron (soluble) *7	(Filtration rate: 80%, shown in a JWPAS B.210 test)	
Iron (particles) *7	(Filtration rate: 80%, shown in a JWPAS B.210 test)	
Soluble manganese *7	(Filtration rate: 80%, shown in a JWPAS B.210 test)	
Aluminum (neutral) *7	(Filtration rate: 80%, shown in a JWPAS B.210 test)	

- ※2 A general term for four chemicals: chloroform, bromodichloromethane, dibromochloromethane, and bromoform.  
 ※3 Another designation of 2-chloro-4,6-bis(ethylamino)-1,3,5-triazine, and a type of agricultural chemicals.  
 ※4 An abbreviation of 2-methylisoborneol, and a cause of the moldy odor from tap water.  
 ※5 An abbreviation of cis-1,2-dichloroethylene and trans-1,2-dichloroethylene.  
 ※6 A type of organofluorine compounds (PFAS).  
 ※7 A substance according to the JWPAS B standards specified by the Japan Water Purifier Association (JWPA).



## Options and Consumables

### Consumables

- Purification cartridge (Product name: Premium Micro Carbon UMS  $\alpha$  Cartridge)
- Shower Head
- pH testing kit

### Purchasing options and consumables

For the purchase of options and consumables, contact the sales agent.

## After-Sales Service

- The purification cartridge is required to be replaced regularly to maintain the best water quality. When “Replace” flashes or is turned on with a buzzer near Cartridge on the touch screen, contact the sales agent.
- The product was strictly inspected. In case of faults, do not disassemble or repair it by yourself but contact the sales agent.
- Spare performance parts will be stored for six years after the stop of production. (Performance parts are those necessary to keep the features of the product.)
- For other after-sales services, contact the sales agent.

## Disposal

### Body/consumables

Dispose of a used body, consumables, and accessories, such as hoses, according to locally specified disposal procedures.

## Checklist

### Final checks

- Did you read this instruction manual carefully?
- Did you connect the ground wire correctly? (See the separate Installation Manual.)
- Did you check whether the water is suitable for this apparatus? (Page 6)
- Did you connect the power plug correctly?
- Did you apply the indicated power supply voltage (220 VAC) to the apparatus?
- Did you ensure that the power cord is not bent or damaged?
- Did you plug the power cord into an extension cord with other cables unplugged?
- Did you use the stable wall outlet?
- Did you make sure the power cord is not fixed with anything, for example, staples?
- Did you ensure that the shower hose and piping do not interfere with the drawers and contained goods under the sink?
- Did you install the apparatus in the correct place? (Page 3)
- Did you ensure that the hoses are not bent or twisted?
- Did you read "Checks before Water Intake" carefully? (Page 15)
- Do you understand how to use the faucet? (Page 21)
- Did you read the precautions for using the faucet shower head carefully? (Page 21)
- Do you understand troubleshooting for the accidental immersion of the apparatus in water? ("Safety Precautions" on page 1)
- Did you read the precautions for drinking electrolyzed hydrogen water carefully? (Page 16)
- Did you read the precautions for using acidic water carefully? (Page 17)
- Did you read the precautions for drinking clean water carefully? (Page 18)
- Do you understand how to store electrolyzed hydrogen water? (Page 2)
- Did you adjust the pH of electrolyzed hydrogen water correctly? (Page 19)



**Nihon Trim Co., Ltd.**

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