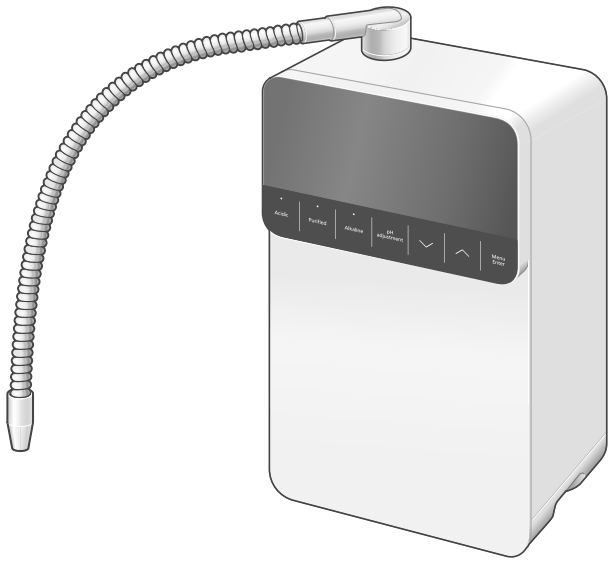
Panasonic®

Operating Instructions
使用說明書

Alkaline Ionizer **For Household Use**

電解水機 **家庭用**

Model No. **TK-AS700**



Thank you for purchasing this Panasonic product.
感謝您購買 Panasonic 的產品。

- Please read these instructions carefully before using this product, and save this manual for future use.
- **Please carefully read the "Safety Precautions" (P. EN4 ~ EN8) of this manual before use.**
- Be absolutely sure to check that the purchase date has been entered on the warranty.
- Please keep in mind that the manufacturer of the product will not be responsible for any product malfunctioning or accidents resulting from the improper installation or operation of the product.
- 請在使用本產品之前仔細閱讀本說明書，並妥善保管本說明書以備日後使用。
- **請在使用之前仔細閱讀「安全注意事項」(TC4~TC8頁)。**
- 保證書上的「購買日期」請務必填寫。
- 因安裝錯誤或不正確使用，而造成產品故障或發生事故時，本公司恕不負責。

Use properly to economize on electricity | 正確使用，節省用電

We use NSF42 certified activated carbon.
我們使用 NSF42 認證的活性碳.

COMPONENT / 成分

Activated carbon (APG-05TGA 60/200) manufactured by Kuraray Co.,Ltd. used in this product is Tested and Certified by NSF International against NSF/ANSI Standard 42 for material requirements only.
(Check Date (2022. 6. 1))
本產品使用的活性碳由 Kuraray Co.,Ltd. 製造的 (APG-05TGA 60/200) 物料需求由 NSF 國際通過 NSF/ANSI Standard 42 檢測和認證。
(檢查日期 (2022年6月1日))

English

中文 (繁體)

Use Alkaline Ionizer

Removing substances

- Free residual chlorine
- Turbidity
- Chloroform
- Total trihalomethane
- Bromodichloromethane
- Dibromochloromethane
- Bromoform
- Tetrachloroethylene
- Trichloroethylene
- CAT (pesticide)
- 2-MIB (mold smell)
- Soluble lead
- 1,2-DCE
- Benzene
- Geosmin (mold smell)
- Phenols
- Carbon tetrachloride
- Iron (particulate form)
- Aluminum (neutral)

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Safety Precautions

Please make sure to follow these instructions

In order to prevent accidents to people or damage to property, always follow the instructions below.

■ **The following is an explanation of danger and damage caused due to incorrect usage according to severity.**

⚠ **WARNING**	Indicates serious injury or death.
⚠ **CAUTION**	Indicates risk of injury or property damage.

■ **The symbols are classified and explained as follows.**
(The following are examples of symbols.)

This symbol indicates prohibition.	This symbol indicates requirement that must be followed.

⚠ WARNING

Power cord and power plug

- **Do not use in a manner that exceeds the rating of the power outlet or connected equipment.**
  (Connecting too many appliances to a power outlet may cause a fire due to heat generation.)
- **Do not damage the power cord or power plug.**
  • Using staples (⋂) to secure it • Damaging it • Re-working it • Bending it unnaturally
  • Twisting it • Pulling it • Positioning it too close to a heating appliance
  • Placing heavy objects on top of it • Bundling it • Pinching it • Sandwiching it. etc.
  (Electric shock or short circuit may occur, resulting in a fire.)
  - When removing the power plug from the power outlet, hold the molded part of the plug rather than the cord itself, and pull the plug free.
  - If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- **Do not connect or disconnect the power plug with wet hands.**
  (Doing so may cause an electric shock.)

- **Use 220 V - 240 V AC voltage.**
  (Failure to do so can cause smoke, fire and/or electric shocks.)
- **Insert the power plug firmly.**
  (Failure to do so can cause smoke, fire and/or electric shocks.)
  - Do not use damaged plugs or loose outlets, as such cannot be inserted securely.
- **Remove the dust or other foreign matter on the power plug periodically.**
  (If dust or other foreign matter is allowed to build up on the plug, moisture or other factors may lead to defective insulation which, in turn, may cause a fire.)
  - Disconnect the power plug, and wipe it with a dry cloth.
- **If the Alkaline Ionizer falls into water by accident, disconnect its power plug from the power outlet, and take the Alkaline Ionizer out of the water.**
  (Otherwise it may cause an electric shock.)
  → Please contact a dealer or subordinate service station of Panasonic for inspection or maintenance.

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⚠ WARNING

Also pay attention to the following precautions

- **Do not disassemble, repair or remodel the unit.**
  (Doing so can lead to a fire and/or electric shocks.)
  →Please contact a dealer or subordinate service station of Panasonic for inspection or maintenance.
- **Do not use water sources other than qualified drinking water.**
  (Doing so may cause health problems.)
  - The Alkaline Ionizer cannot sterilize water or remove harmful substances (P. EN2).
- **When not in use, remove the product without leaving it unattended.**
  (The product may fall or drop, resulting in injury.)

In case of abnormality or fault

- **Stop use immediately and unplug the power plug.**
  (Failure to do so can cause smoke, fire and/or electric shocks.)
  <Examples of abnormality and fault>
  • H34 is displayed on LCD
  • Abnormal sound during operation
  • Abnormal heat or deformation of the Alkaline Ionizer
  →Contact a dealer or subordinate service station of Panasonic for inspection or maintenance.

⚠ CAUTION

Existing conditions and health problems

- **People with kidney disease (users who have renal failure or who have difficulty in eliminating potassium from their systems) should not drink alkaline ion water.**
  (Doing so may cause health problems.)
- **This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance. Keep this instruction manual in a safe place.**
  (Otherwise it may cause an accident or health problems.)
- **People with the following conditions should consult a doctor before drinking alkaline ion water.**
  - People who is receiving medical treatment from a doctor
  - People with health problems or weakened constitution (People who is not feeling well)
  - People with kidney diseases other than renal failure or potassium elimination

  (Doing so may cause health problems.)
- **People in the following situations should consult a doctor before applying weak acidic water to their skin.**
  - People with sensitive skin
  - People susceptible to allergic dermatitis

  (Doing so may cause health problems.)
- **For the first time of use, drink only a small amount (1-2 cups per day) of "Alkaline Level 1", and continue to drink about 2 weeks for the adaption of your body; afterwards, you can drink "Alkaline Level 2" or "Alkaline Level 3".**
  (Drinking alkaline ion water with high alkalinity at first or drinking a large amount (more than 3 cups) of it may be harmful to the health.)

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Safety Precautions

Please make sure to follow these instructions

⚠ CAUTION

Installation location

- **Do not block the main spout or bend, twist, flatten, pull or clamp the hose.**
  (Doing so may cause water to leak, prevent the output of water or cause other malfunctioning.)
- **Do not connect a hose or any other appliances to main spout.**
  (Doing so may cause water leaks or malfunctions.)
- **Do no use the product with the outlet pipe loosened.**
  (Doing so may cause water leaks or damage.)
  - If it has come loose, screw it in securely.
- **Do not connect the Alkaline Ionizer to a main stop system water boiler (whose construction does not permit the water to be stopped at the hot water outlet) [such as an instantaneous water heater].**
  (Doing so may lead to malfunction in the water boiler.)

- **Install the main unit on a level surface.**
  (Failure to do so may cause the main unit to topple over and possibly cause injury.)

Storing alkaline ion water and purified water

- **Use alkaline ion water or purified water immediately after it is produced. When storing it for future consumption, pour into a clean sealed container, and consume it within 1 day if it is kept at room temperature or within 2 days if it is kept in the refrigerator.**
  (The Alkaline Ionizer removes sterilizers (such as chlorine) so the water may go bad over time, possibly causing health problems.)

In case of abnormality

- **If you have drunk alkaline ion water and do not feel well as a result, or if the symptoms do not improve after continued use, stop drinking the water and consult a doctor.**
  (Otherwise it may cause health problems.)
- **If you have applied weak acidic water to your skin and you experience skin problems, stop use immediately, and consult a doctor.**
  (Otherwise it may cause health problems.)

Hot water

- **Do not allow water above 60 °C in temperature to pass through the Alkaline Ionizer.**
  (A burn injury may occur due to water coming out from the main spout.)

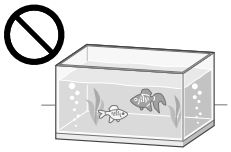
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⚠ CAUTION

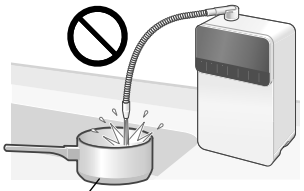
About the application of alkaline ion water, weak acidic water, and acidic water that cannot be drunk or used

- **Do not drink the following kinds of water.**
  - Weak acidic water or acidic water
  - Water which comes out of the drain hose
  - Water that comes out from the main spout during preparation (“Preparation time” displayed on the LCD) or during the automatic electrode cleaning (“Electrode cleaning” displayed on the LCD)

  (Doing so may cause health problems.)
- **Do not take medicine with alkaline ion water.**
  (Doing so may cause health problems.)
- **Do not directly consume water whose pH level exceeds 10.**
  (Doing so may cause health problems.)
  - Consuming water which has a pH level of around 9.5 “alkaline 3” (drinking water in daily life) is recommended. Keep the general amount of water consumed daily at around 0.5 liter to 1 liter.
  - When pH adjustment is set to the “Stronger” mode, be sure to check pH with the pH test kit before using.
- **Do not use alkaline ion water, weak acidic water, or purified water for the care of fish, etc.**
  (The environment may change as a result, and the fish, etc. may die.)



- **Do not use aluminum containers that do not stand up to alkalis or copper containers that do not stand up to acids.**
  (Doing so may cause discoloration of the containers or damage them.)



Aluminum or copper containers

- **At the beginning of daily use, run water approx. 0.6 liters (approx. 23 seconds) before using.**
- **If two days or more have passed after the last use, run water approx. 8 liters (approx. 5 minutes) before using.**
  (Using residual water inside the main unit may cause ill health.)

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Safety Precautions

Please make sure to follow these instructions

⚠ CAUTION

Accidental ingestion

- **Do not leave the supplied accessories within reach of infants or toddlers.**
  (Doing so may result in accessories being swallowed by mistake.)
  - Consult a doctor immediately if you suspect that an accessory has been swallowed.
- **Do not allow infants or toddlers to play with packaging material.**
  (Doing so may cause suffocation.)

Maintenance

- **Do not splash water or wash the main unit.**
  (Doing so may cause an electric shock or malfunction.)

pH test liquid

- **Do not bring the pH test liquid near a naked flame.**
  (Doing so may cause it to ignite, causing a fire.)
- **Do not drink the pH test liquid or the water containing the test liquid or put in your eyes. Keep these liquids away from children.**
  (Doing so may cause health problems.)
  - If the pH test liquid or water containing the test liquid has been accidentally swallowed, drink copious amounts of water; if it has made contact with your eyes, rinse them thoroughly with clean water and, in either case, consult a doctor.
  - Tightly fasten the cap of the test liquid container, and keep the container out of reach of infants or toddlers.

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Operating Precautions

Water supply

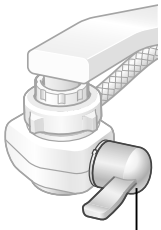
- **Do not drink water in case of the following conditions.**
  - Water which is very turbid, or water containing a great deal of red rust
    (Doing so may shorten the service life of the cartridge.)
  - Well water near sea coast
    (Doing so may cause malfunction.)
- **To use in areas* where the hardness of tap water is high, the slightly acidic water should be discharged for about 1 minute before using every day.**
  (Or the calcium will attach on the main spout and water run through path, which may lead to poor water run through condition.)
  * In areas where the hardness of water is high, the foaming state of soap is poor, and white matter (calcium) will attach to teapots and pots.
- **Due to the quality of tap water in the residential area, the pH level of the water may not be adjusted to the specified level.**

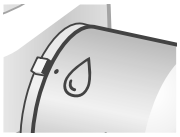
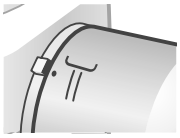
Installation

- **Do not install the Alkaline Ionizer in any of the following locations.**
  - **Near hot areas such as heating appliances(above 60 °C)**
    (Doing so may cause it to become deformed.)
  - **In an area in direct sunlight or where it may be exposed to wind and rain**
    (Doing so may cause incorrect operation or malfunctions.)
  - **Where it may freeze**
    (Doing so may cause cracking in the water pipes or cartridge.)
  - **Where it may be covered with oil**
    (Doing so may cause cracking in the main unit.)
  - **In a bathroom or where the Alkaline Ionizer will be exposed to water or steam**
    (Doing so may cause incorrect operation or malfunctions.)
  - **In areas lower than the kitchen counter (such as the floor)**
    (Water may not be drained completely.)
  - **Near radios**
    (Prevent radio wave interference and noise.)
- **Do not connect the Alkaline Ionizer to a hot water-only faucet.**
  (Doing so may cause malfunction.)
- **Do not extend the main spout using a commercially sold hose, etc.**
  (Doing so may cause malfunction.)

Usage

- **Do not place this product upside down.**
  (Doing so may cause that lead to malfunction.)
- **The table below shows the temperatures of water that can be used. Use water at these temperatures.**
  (Failure to do so may cause damage or adhesion to the cartridge, resulting in part of the total trihalomethane being discharged.)



Position of bypass selector	Water temperature
When using alkaline ion water, etc. • **: Purified** 	**Under 35 °C**
When using tap water • **: Unpurified (Foam straight)**  • **: Unpurified (Foam shower)** 	**Under 80 °C**

- **Do not continuously use alkaline ion water, weak acidic water, and acidic water for approx. 10 minutes or more.**
  Using such water approx. 10 minutes or more displays U27, stops electrolysis, and returns to the Purified mode.

Handling of pH test liquid (P. EN13, EN22)

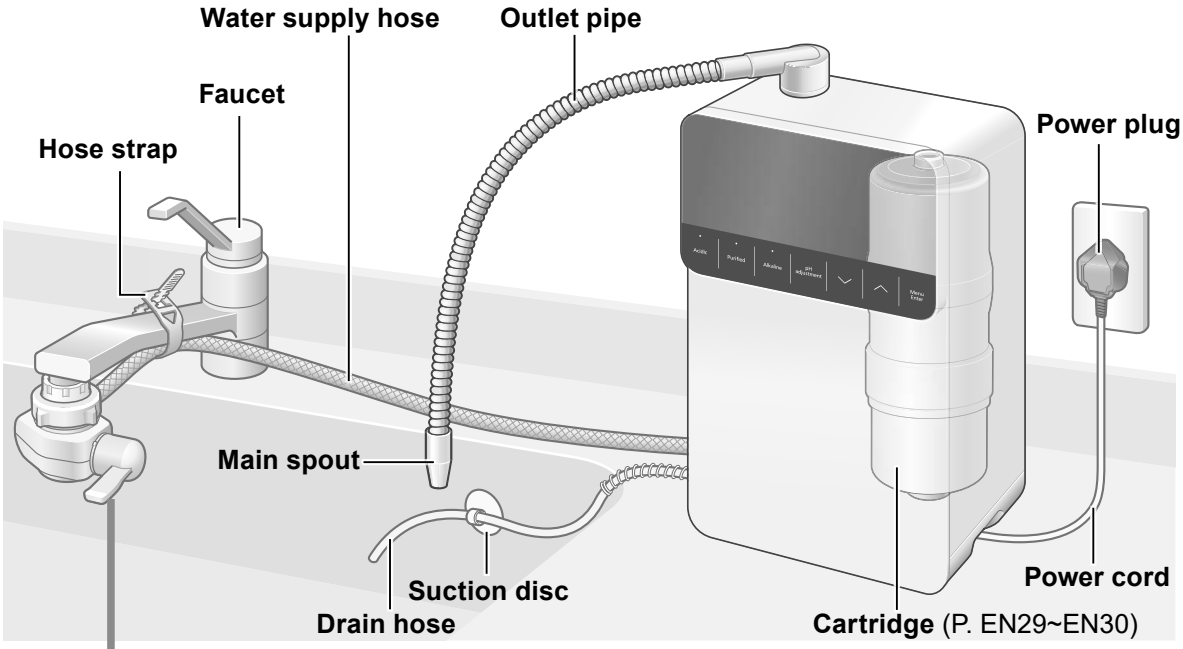


- **Store the pH test liquid in a place without direct sunlight.**
  (Or it cannot make correct measurement due to color change.)
- **To dispose of the pH test liquid, dilute it with water before pouring it down the drain.**

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Names of the Parts and Steps to Take Before Operation

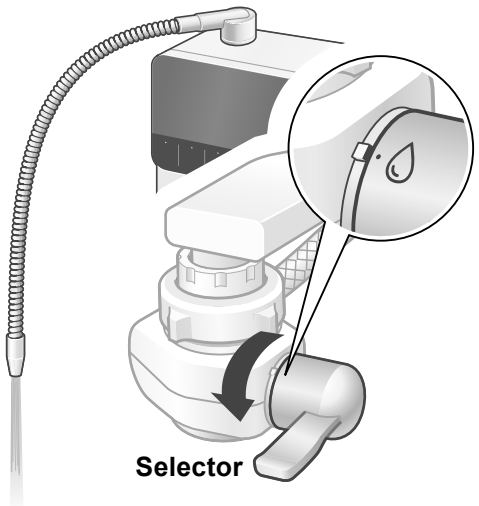
Main unit



Bypass selector

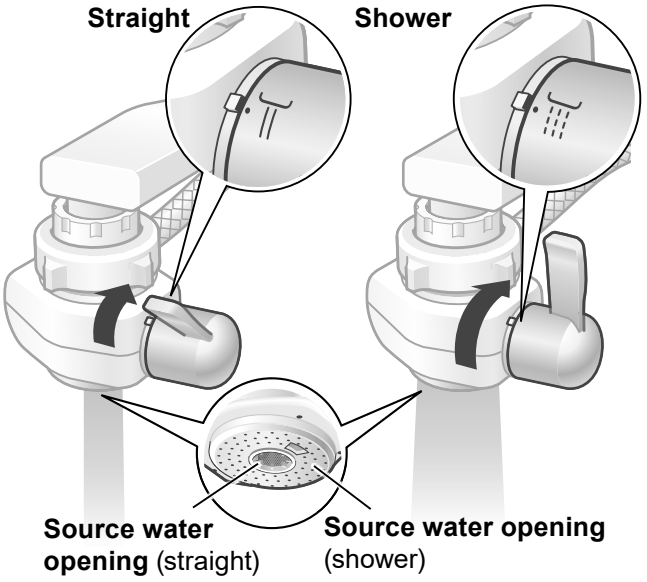
When using alkaline ion water, etc.

Water is fed to the main unit, and the water comes out from the main spout.



When using tap water

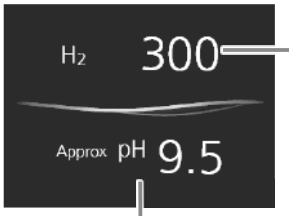
The water comes out from the source water opening.



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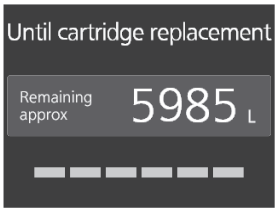
Control panel

Display (LCD display)

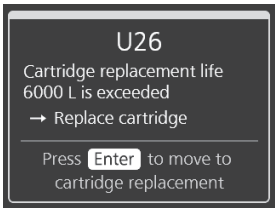


Hydrogen concentration (guideline)*
- Displays a guideline of hydrogen concentration only for alkaline ion water.
  *This is an estimate calculated from electrolysis conditions.

pH (guideline)
- Displays pH (guideline).(P. EN24)



- Displays the remaining amount of water flow until cartridge replacement. (P. EN29)



- Displays an error of the main unit. The cause and solution are displayed.

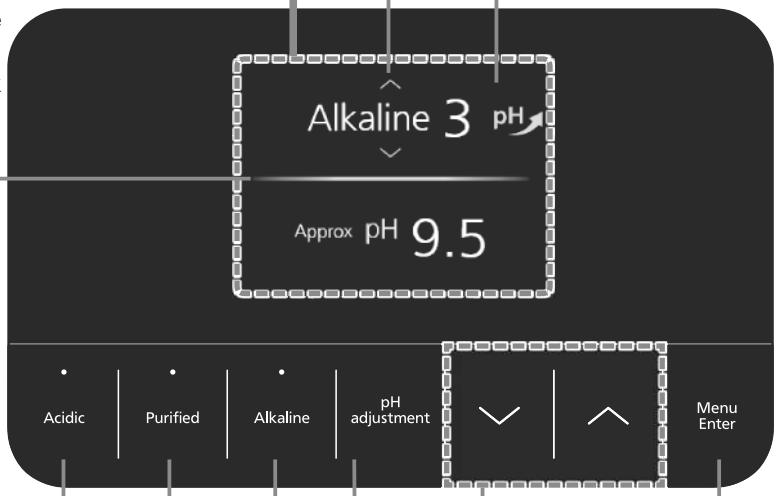
- Depending on the tap water or usage conditions, the hydrogen concentration display may not change even if the type of water or mode is switched.
- Around pH 9.5 is recommended for daily drinking.
- The LCD display lights up when a button operation is performed or water is flowed. (It turns off in approx. 30 seconds after the button operation is finished or water flow is stopped.)

Water Signal Indicator
- Preparation time blinks during preparation, and the display changes as shown below.
  Start of preparation :
  End of preparation :
  Water is flowing :
- The color changes according to the type of selected water.
  Alkaline 4 : Orange
  Alkaline 1~3 : Blue
  Purified : Green
  Weak Acidic : Pink
  Acidic : Red

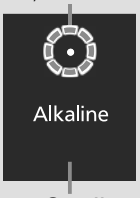
Water quality mode
Displays the currently selected water quality mode. (P. EN24)

Displayed in “pH adjustment” mode.

Main screen



Water Quality Indicator Lights
The water quality indicator of the selected water lights up. (Blinks during preparation.) (P. EN26)



Water Quality Selector Buttons
Selects the water quality.
For alkaline ion water

“pH adjustment” button
Moves to the pH adjustment setting screen. (P. EN23)

Selection button
- Selects a water quality level or item.

“Menu/Enter” button
- Moves to the menu screen. (P. EN32)
- Determines the selected content.

The indicators, numbers, and other displays in the illustrations are examples for explanation purposes.

Confirmation

English

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Steps to take before operation

Installation 1 **Check the main unit and supplied accessories**

P. EN13

Installation 2 **Checking the faucet**

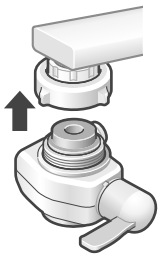
P. EN14



Installation 3 **Attaching the bypass selector**

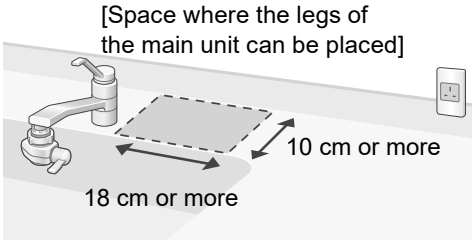
The attaching method differs depending on the shape of faucet.

P. EN15 ~ P. EN17



Installation 4 **Installing the Alkaline Ionizer**

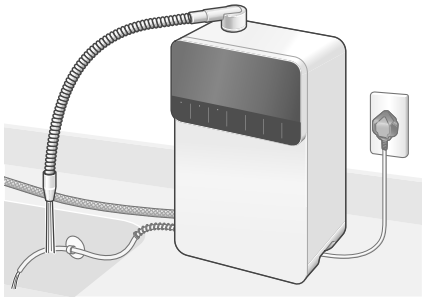
P. EN18 ~ P. EN19



Installation 5 **Checks after installation**

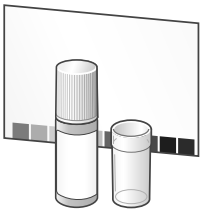
The air in the main unit is not completely exhausted, please drain the water for about 3 to 4 minutes.

P. EN20 ~ P. EN21



Installation 6 **Measure and adjust the pH level of water**

P. EN22 ~ P. EN23



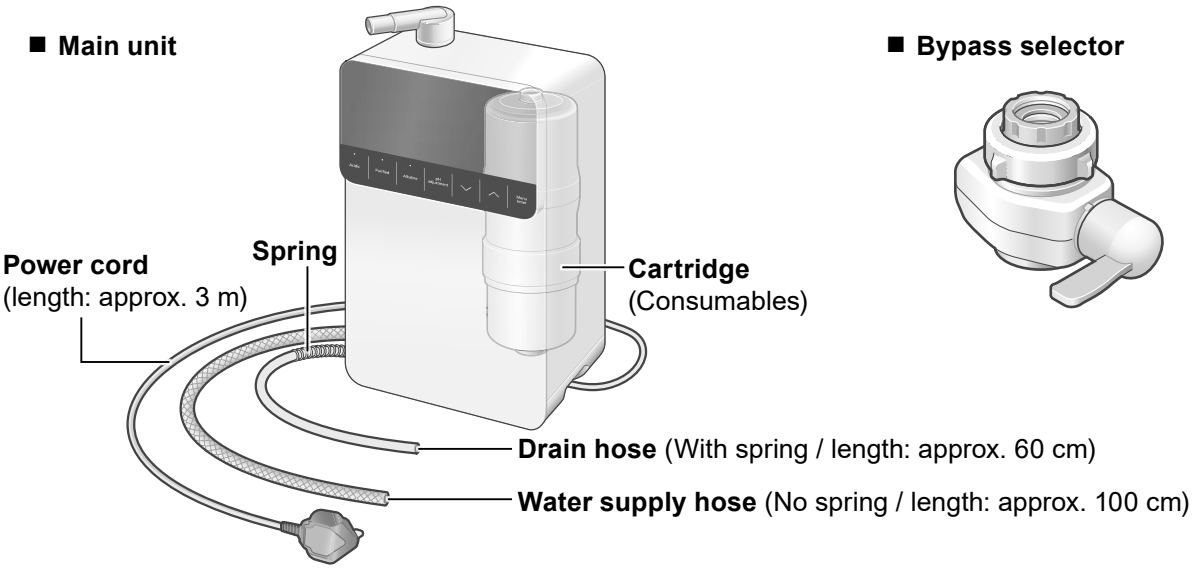
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Installation 1 Check the main unit and supplied accessories

If any are missing, contact your dealer.

Items in the package

■ **Main unit**



■ **Bypass selector**

Installation

Supplied Accessories

For Use in Installing

■ **Installation Adaptor**
(with 4 screws)



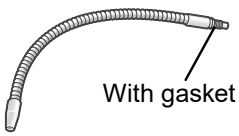
■ **Bushing**
(with gasket)



■ **Suction Disc**



■ **Outlet Pipe**



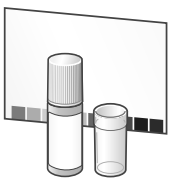
■ **Hose Strap**



For determination of pH level

■ **pH test liquid** (attached with the pH Chart)

- The test liquid is used to regularly measure the pH level standard.
  The acidic water with pH level of 4.0 or below will show the same color.
  Main ingredients: Ethanol/methyl red/bromothymol blue/phenolphthalein



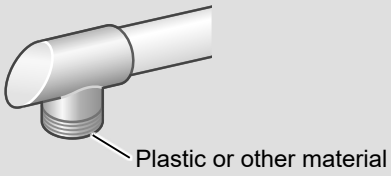
English

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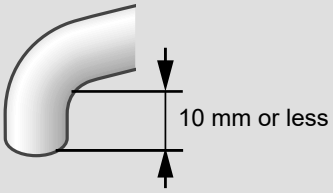
Installation 2 Checking the Faucet

Water faucet which cannot install the Alkaline Ionizer

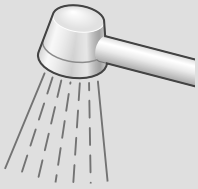
Faucet without a metal lip end



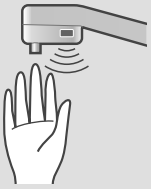
Faucet with an end of 10 mm or less



Shower nozzle



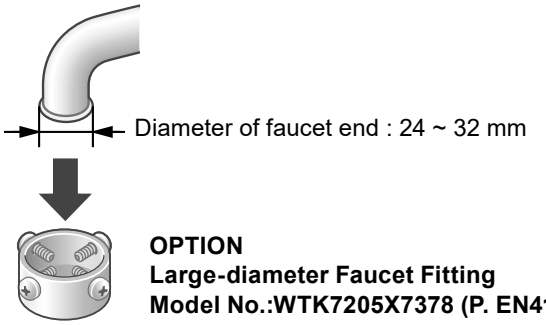
Faucet with sensor



Note

Faucet with a flaring end

- Water faucet which can attach the Alkaline Ionizer using options.



OPTION
Large-diameter Faucet Fitting
Model No.:WTK7205X7378 (P. EN41)

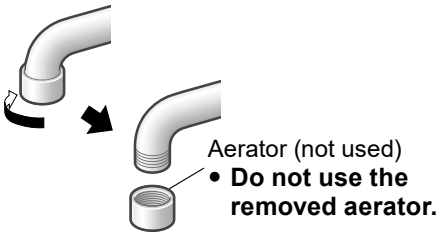
TK-AS700_En.indb 14 2022/06/23 14:07:39

Installation 3 Attaching the bypass selector

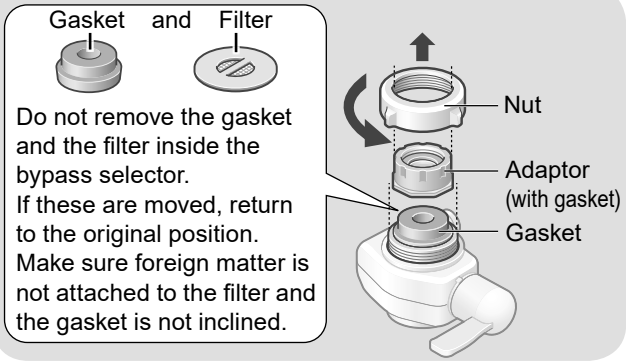
Keep all parts that are not used during installation, as they may be needed later if the unit is moved or the faucet is changed.

Outside-screwed faucet

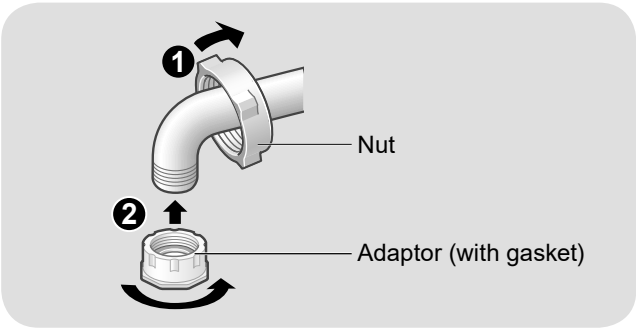
- Water faucet which can attach the Alkaline Ionizer without an accessory.



1 Remove the nut and adaptor.

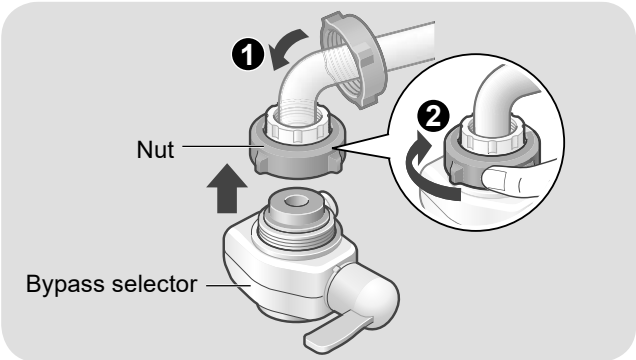


2 Attach the nut and adaptor.



3 Attach the bypass selector and tighten the nut until the bypass selector does not turn.

- Do not use any tools. (This may damage the nut.)
- Make sure the bypass selector is not inclined.



Installation

English

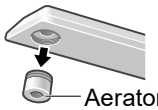
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Installation 3 Attaching the bypass selector (continued)

Keep all parts that are not used during installation, as they may be needed later if the unit is moved or the faucet is changed.

Inside-screwed faucet

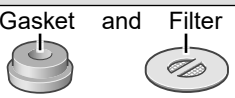
- Water faucet which can attach the Alkaline Ionizer with an accessory.



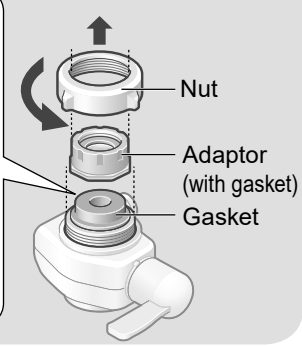
Aerator (not used)

- **Do not use the removed aerator.**

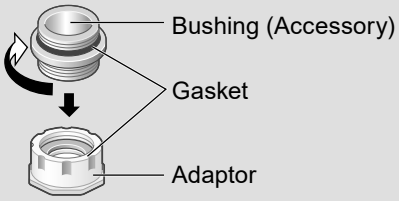
1 **Remove the nut and adaptor.**



Do not remove the gasket and the filter inside the bypass selector.
If these are moved, return to the original position.
Make sure foreign matter is not attached to the filter and the gasket is not inclined.

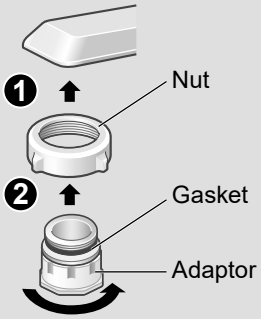


2 **Screw in the bushing. Insert into the adaptor.**



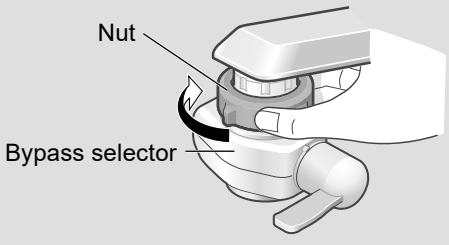
3 **Attach the nut and adaptor.**

- The adaptor should be screwed on straight. Screwing it on tilted may strip the threads, resulting in water leaks.



4 **Attach the bypass selector and tighten the nut until the bypass selector does not turn.**

- Do not use any tools. (This may damage the nut.)
- Make sure the bypass selector is not inclined.

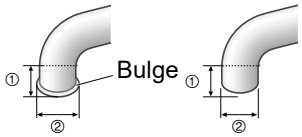


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Keep all parts that are not used during installation, as they may be needed later if the unit is moved or the faucet is changed.

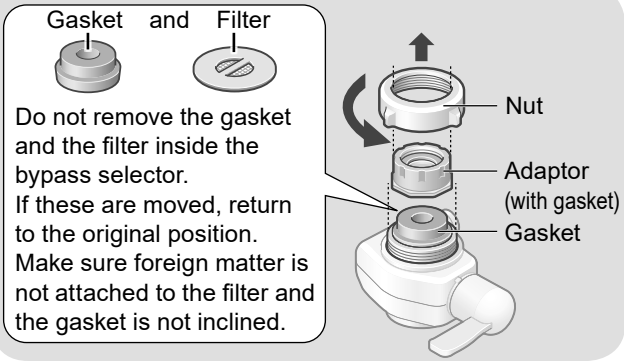
Faucet without an aerator

- Water faucet which can attach the Alkaline Ionizer with accessory.

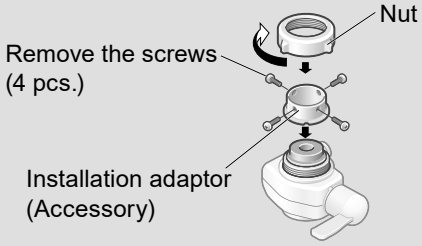


① more than 10 mm
② 13 mm or more, less than 24 mm

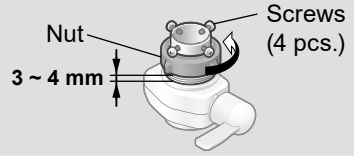
1 Remove the nut and adaptor.



2 Insert the installation adaptor, and tighten it with the nut.

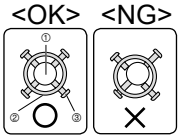


3 Tighten the 4 screws temporarily and loosen the nut to leave a 3 ~ 4 mm gap.

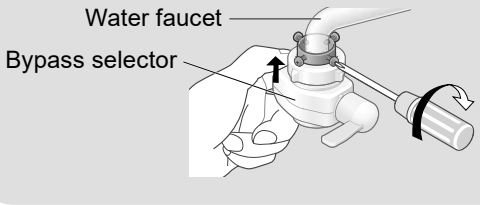


4 Push the bypass selector against the faucet and install the 4 screws as shown below.

- Top view

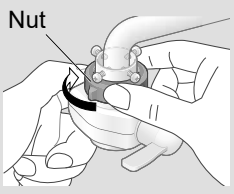


① Water faucet
② Installation adaptor
③ Screws



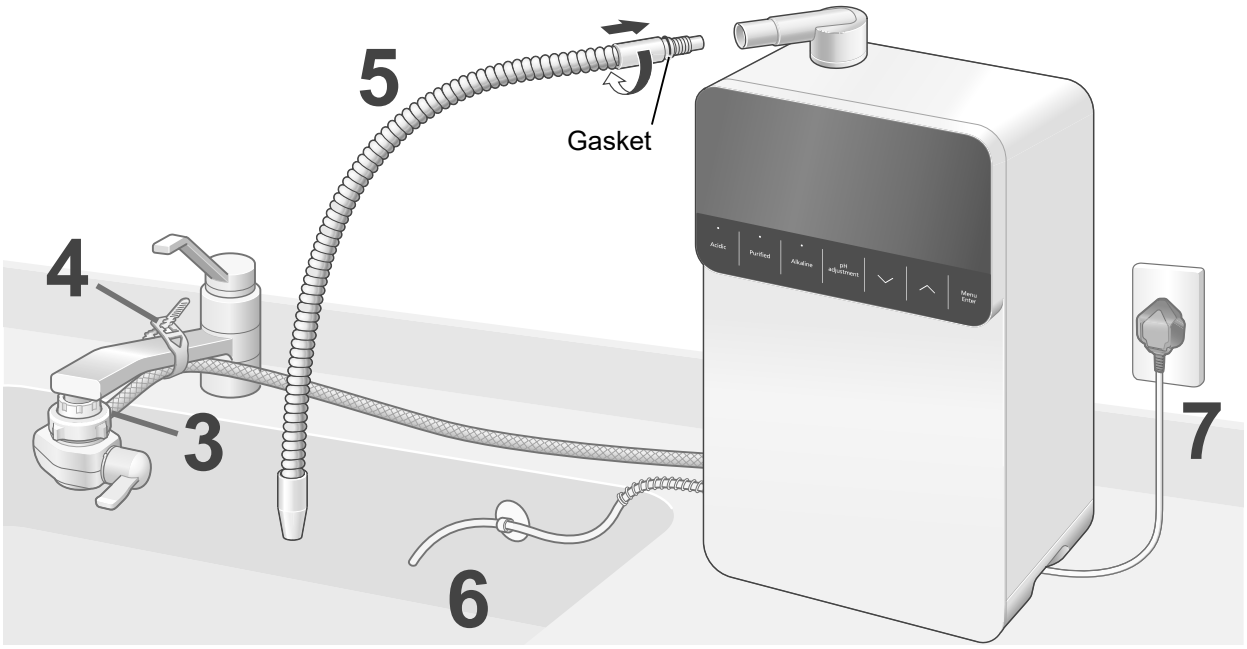
5 Tighten the nut until the bypass selector does not turn.

- Do not use any tools. (This may damage the nut.)
- Make sure the bypass selector is not inclined.

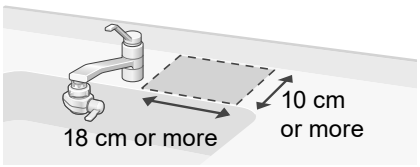


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Installation 4 Installing the Alkaline Ionizer



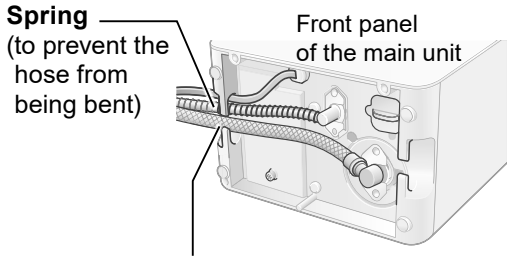
1 Choose a stable, level surface.



2 Extend the power cord and hose in the manner that best suits the location where the unit is installed.

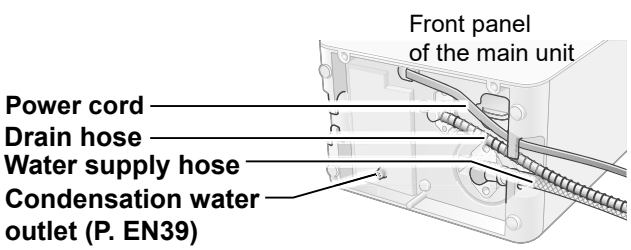
- Do not flatten or bend the cord or hose.

When extending the cord and hose from the left



Bottom of the unit

When extending the cord and hose from the right

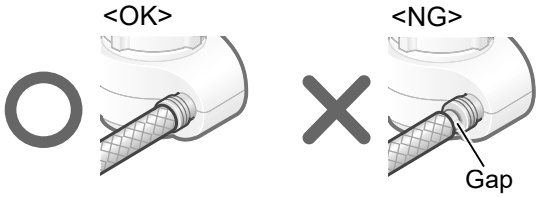


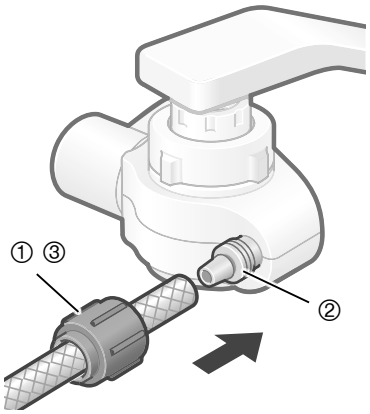
When drawing out the cord and hoses from the right side, rotate the water supply hose counterclockwise, and insert it to the cutout first.

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3 After completing the preparations, connect the water supply hose.

① Remove the hose fastening nut from the bypass selector, and pass the hose through the nut.
② Insert the water supply hose into the bypass selector as far as it will go.





③ Tighten up the hose fastening nut securely.

- Do not use any tools for this assembly (since the hose fastening nut may be damaged)

4 Using the hose strap, Secure the water supply hose.

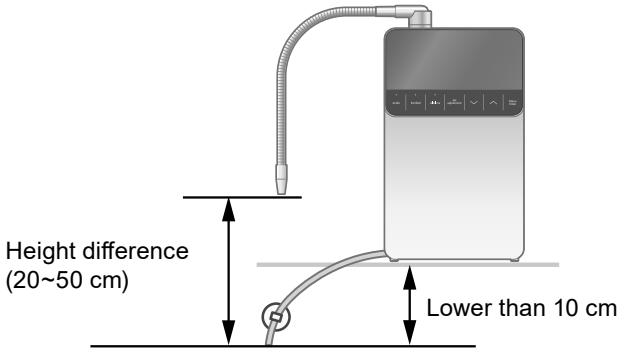
- Be sure to fix the water supply hose. (Water leakage may occur.)

5 Screw in the outlet pipe until it is secured firmly.

- Do not use any tools for this assembly (since the pipe may be damaged).
- Ensure that the packing does not come off or protrude from the groove, preventing it from twisting. (since this may cause the water to leak).
- Do not lift the unit by taking hold of the outlet pipe (otherwise damage may result).

6 Secure the drain hoses using the suction disc.

- Do not place a garbage bin under the drain hose.



The tip of the drain hose must be lower than the bottom of the main unit, or the height difference between the tip of main spout and the tip of the drain hose must be more than 20 cm and less than 50 cm.
[So that the appropriate pH level (ion exponent) is achieved**]**

7 Connect the power plug to the power outlet (AC 220 V - 240 V).

- The buzzer beeps, and the water quality indicator of "Purified" lights up. (The LCD display changes as Language → Until cartridge replacement → Preparation time (15 seconds) → Purified → Until cartridge replacement, and turns off after approx. 50 seconds.)
- The Alkaline Ionizer's power consumption is 1 W even in the standby status.

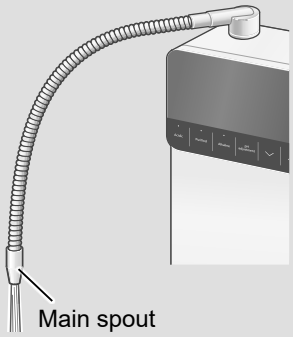
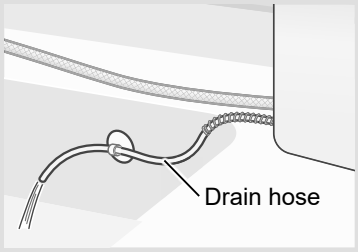
Important

- If the hose is too long, it is recommended that you cut it to the proper length (cut it straight down).
- Do not bundle the hose as one. Do not fix the hose in such a way that the hose floats. (Water remaining in the hose may cause odor.)
- After installation, run water for 3 to 4 minutes to eliminate the air inside the main unit.
- While water is flowing after installation, Preparation time and the countdown are displayed for 20 seconds.
- Do not remove the power plug normally so that the automatic electrode cleaning operates correctly and the cartridge life is displayed correctly. (P. EN29, EN31)

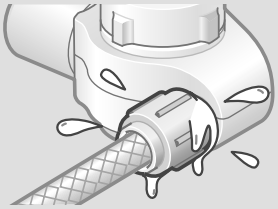
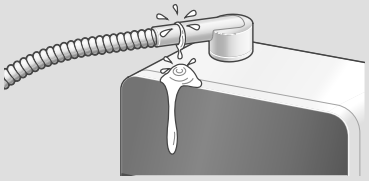
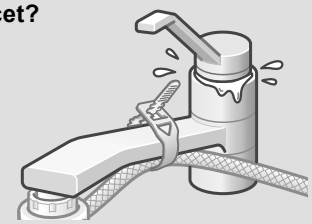
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Installation 5 Checks after installation

After installation, check the following items. In the case of abnormality, refer to the actions to be taken for each part.

Check item	Trouble inspection location and remedial action	Reference page
Is water coming out of the main spout?  	● Is the water supply hose bent or flattened? → If it is, straighten it out.	EN18~EN19
Is water coming out of the drain hose when alkaline ion water has passed through the Alkaline Ionizer?  	● Is the drain hose bent or flattened? → If it is, straighten them out. ● When water coming out from the drain hose interrupts halfway, increase the height difference between the tip of the main spout and the tip of the drain hose.	EN19 EN19
Is any water leaking from where the bypass selector is connected?  	● Has the bypass selector been installed securely on the faucet? → Check again the instructions for “Attaching the Bypass Selector”, and install it securely. ● Have the parts inside the bypass selector been inserted properly? → If not, install them properly. ● Are there any cracks at the end of the faucet (in the insulating cap, for instance)? → Consult a plumber. ● Has the water supply hose been fixed with the hose fixing band?	EN14~EN17 EN14~EN17 — EN19

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Check item	Trouble inspection location and remedial action	Reference page
Is there any water leaking from where the water supply hose is connected? 	● Has the water supply hose been attached securely to the bypass selector? → Insert it as far as it will go, and use the hose fastening nut to secure it. <OK> <NG>  	EN19
Is there any water leaking from where the outlet pipe is connected? 	● Has the outlet pipe been attached securely to the unit? → Insert it securely as far as it will go. ● Is the gasket installed on the outlet pipe or is it twisted? → Install the gasket properly.	EN19 EN19
Is water leaking from the faucet? 	● Is the gasket on the faucet old? → Consult a plumber. ● Are there any cracks in the faucet (in the insulating cap, for instance)? → Consult a plumber.	— —

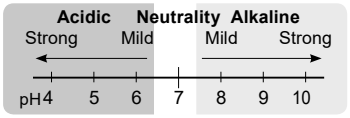
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Installation 6 Measure and adjust the pH level of water

After the Alkaline Ionizer has been installed or after it has not been used for a prolonged period (generally, a week or more), be absolutely sure to measure the pH level, and check that it is within the “pH standard” before using the Alkaline Ionizer. Remember to measure the pH level periodically (at least once a month).

Note

- **What is the pH level (ion concentration)?**
  The pH level indicates the degree of alkalinity, neutrality or acidity of water (aqueous solutions), and stands for “hydrogen ion exponent.”

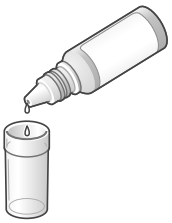


Procedure for measurement

What to have ready: pH test kit (supplied accessory)
Measure with Alkaline 3 and weak acidic water respectively.

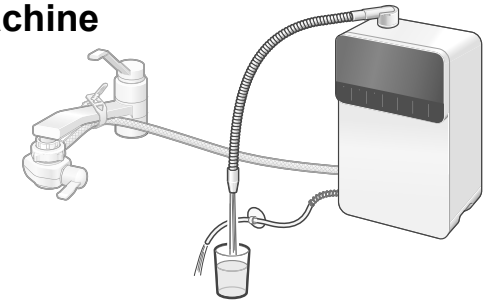
1 Put 2 drops of pH test liquid in to the test tube.

- The pH cannot be determined accurately any amount other than 2 drops.
- If the test water is placed before the pH test liquid is added, the two liquids may not be evenly mixed, leading to incorrect measurement.



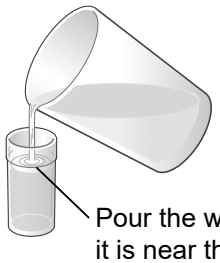
2 Place the water generated by this machine in a regular cup.

- Flush water at least 10 seconds in order to obtain a stable pH level.



3 Put the sample water into the test tube.

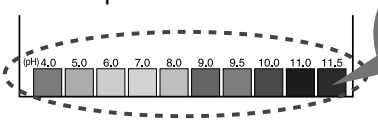
- If some of the test water is first collected in a glass and then poured into the test tube, it will be easier to align the level with the line inside the test tube.
- So long as the water inside the test tube is within 5 mm above or below the line, no problems will be posed in the pH level measurement: there is no need to adjust the level until it comes up to the exact level of the line.



Pour the water until it is near the line inside the test tube.

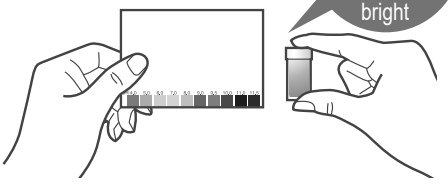
4 Under the enough light, compare the result with the pH Chart.

- The color of the test water will change as time passes. Compare its pH level against the pH Chart right away.



Compare pH Chart with the color of the water

at a location where the background is whitish and bright



OK in this range

Water type	Alkaline ion water Level 3	Weak acidic water
pH level standard	9 ~ less than 10	5 ~ 6.5

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When is adjustment necessary?

When the measurement results are beyond the range of “pH level standard”, adjustment shall be made. After the completion of adjustment, the pH level shall be measured again.

When the pH level of the Alkaline 3 or weak acidic water is within the range → No adjustment required.

The pH level is relatively low.

- Alkaline 3 (pH level is less than 9.) → Set [Alkaline pH] of pH adjustment to [Stronger].(P. EN23)
- Weak acidic water (pH level is less than 5.) → Set [Weak Acidic pH] of pH adjustment to [Milder].(P. EN23) → The pH level is still low. → Please mix with purified water to make the pH level greater than 5 before use.

The pH level is relatively high.

- Alkaline 3 (pH level is 10 or above.) → Set [Alkaline pH] of pH adjustment to [Milder].(P. EN23) → The pH level is still high. → Use water of Alkaline 1 or Alkaline 2. → The pH level is still high. → Please mix with purified water to make the pH level smaller than 10 before use.
- Weak acidic water (pH level is more than 6.5.) → Set [Acidic pH] of pH adjustment to [Stronger]. (P. EN23) → The pH level is still high. → Decrease the amount of outlet water.

- When the cartridge is relatively new (in about 1 week), the pH level is likely to be slightly high. Please measure the pH level again after about 1 week.

■ Reference: Different properties of alkaline ion water due to tap water source

Tap water in residential area	Water in hot spring area	Groundwater (water enrich with carbonic acid)	Water with low hardness*	Water in seaside or islands	Water with high hardness*
Properties of alkaline ion water	Difficult to become alkaline			Easy to become alkaline	

* Hardness: Concentration of calcium and magnesium contained in the water

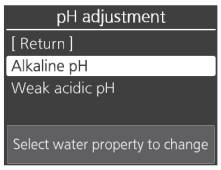
- For determination of tap water, color change not shown in the pH Chart may appear due to the influence of the various ingredients in water.

Adjustment method

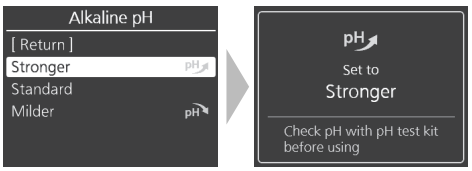
Preparation: Please turn off the faucet.

- The pH level fine adjustment changes the pH level in a range from 0.2 to 1.5 for “Stronger” or “Milder” from the “Standard” setting. (Depending on the water quality and usage conditions, there is some latitude in the amount of the change.)

1 Press [pH adjustment], select the setting content with [∨] [∧], and press [Menu Enter].



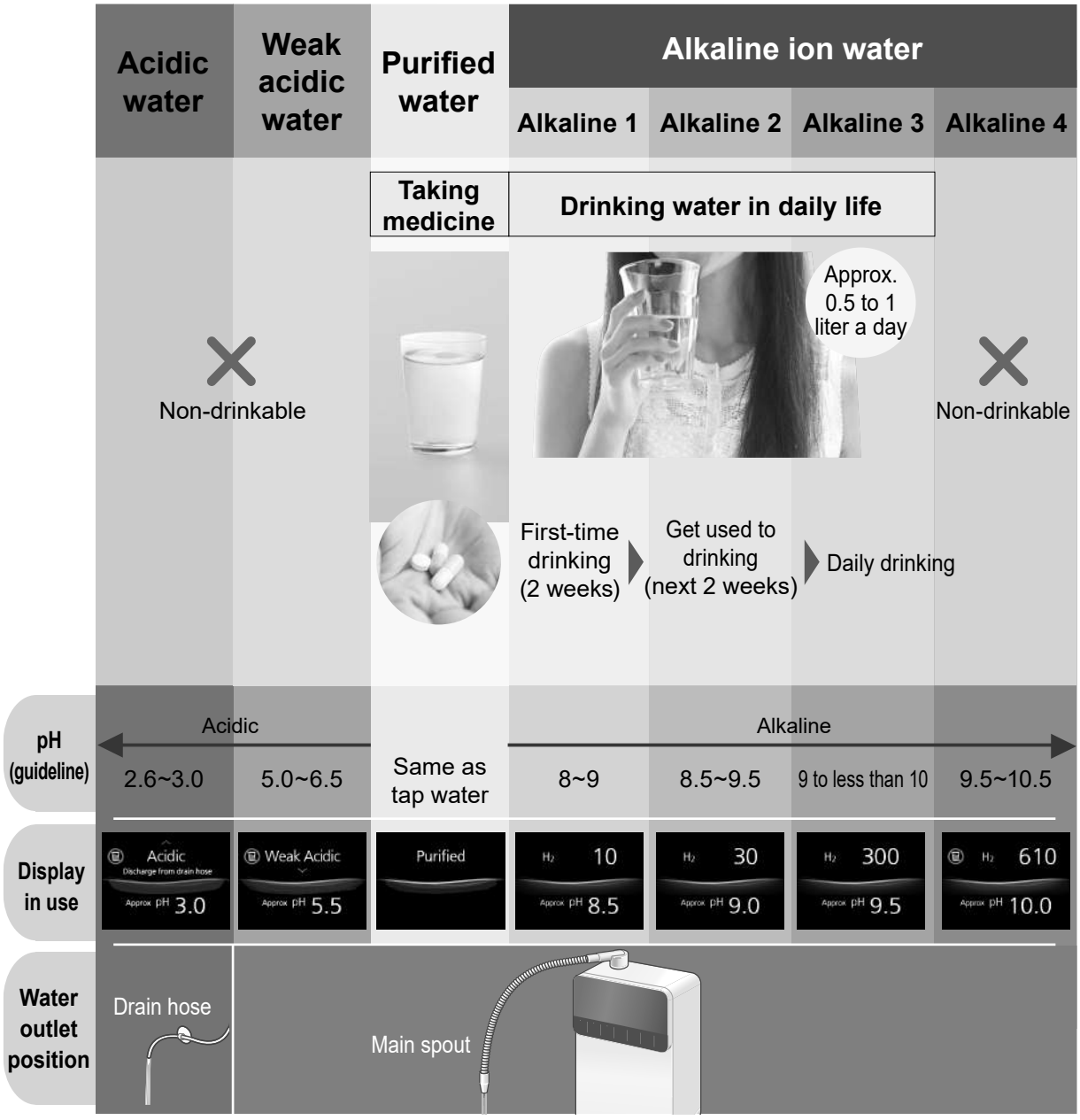
2 Select the setting content with [∨] [∧], and press [Menu Enter].



- Flowing water or pressing the water quality selector buttons returns to the water quality screen.
- pH and pH are displayed when the set water quality is selected.
- When “Weak acidic pH” is set to the “Stronger” mode, Reduce water flow tends to be displayed. (P. EN27)

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Usage of Water



- What is pH?
(P. EN22)

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Convenient usage

Acidic water	Weak acidic water	Purified water	Alkaline ion water			
			Alkaline 1	Alkaline 2	Alkaline 3	Alkaline 4
Washing	Washing the face	Making baby formula			Cooking and making tea	Removing astringency, boiling vegetables
						
For removing tea stains from tableware, odors left behind by cooking fish dishes, etc.					For tea and boiled food	When removing the astringency from burdock and spinach, etc.

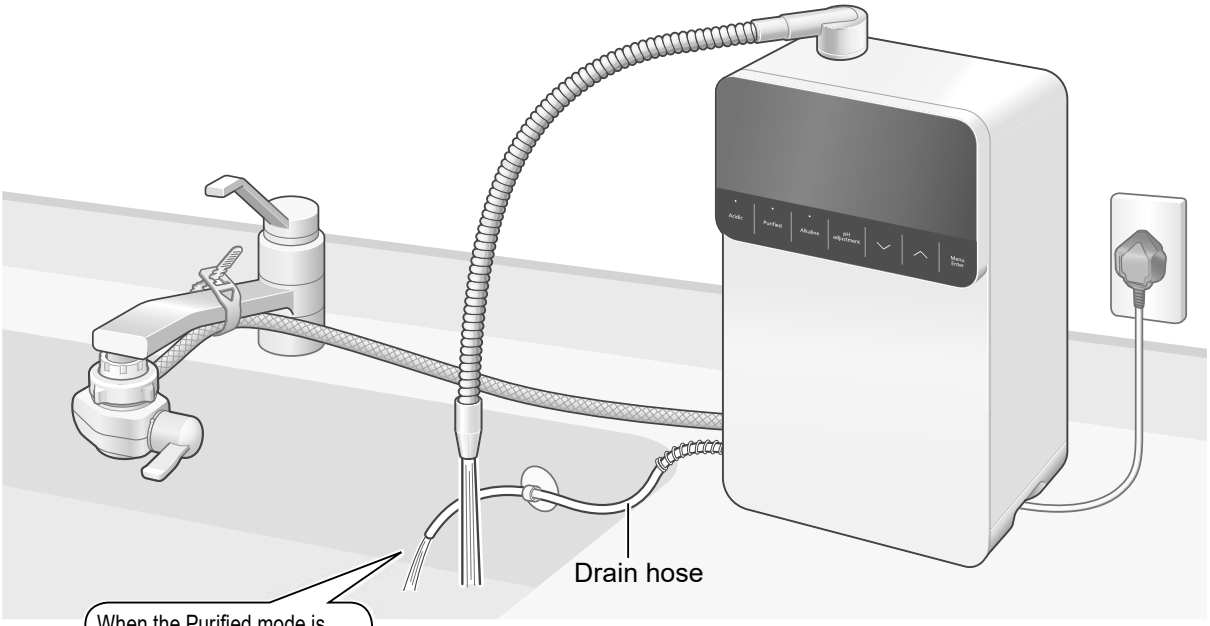
For gargling after meal



When cooking rice

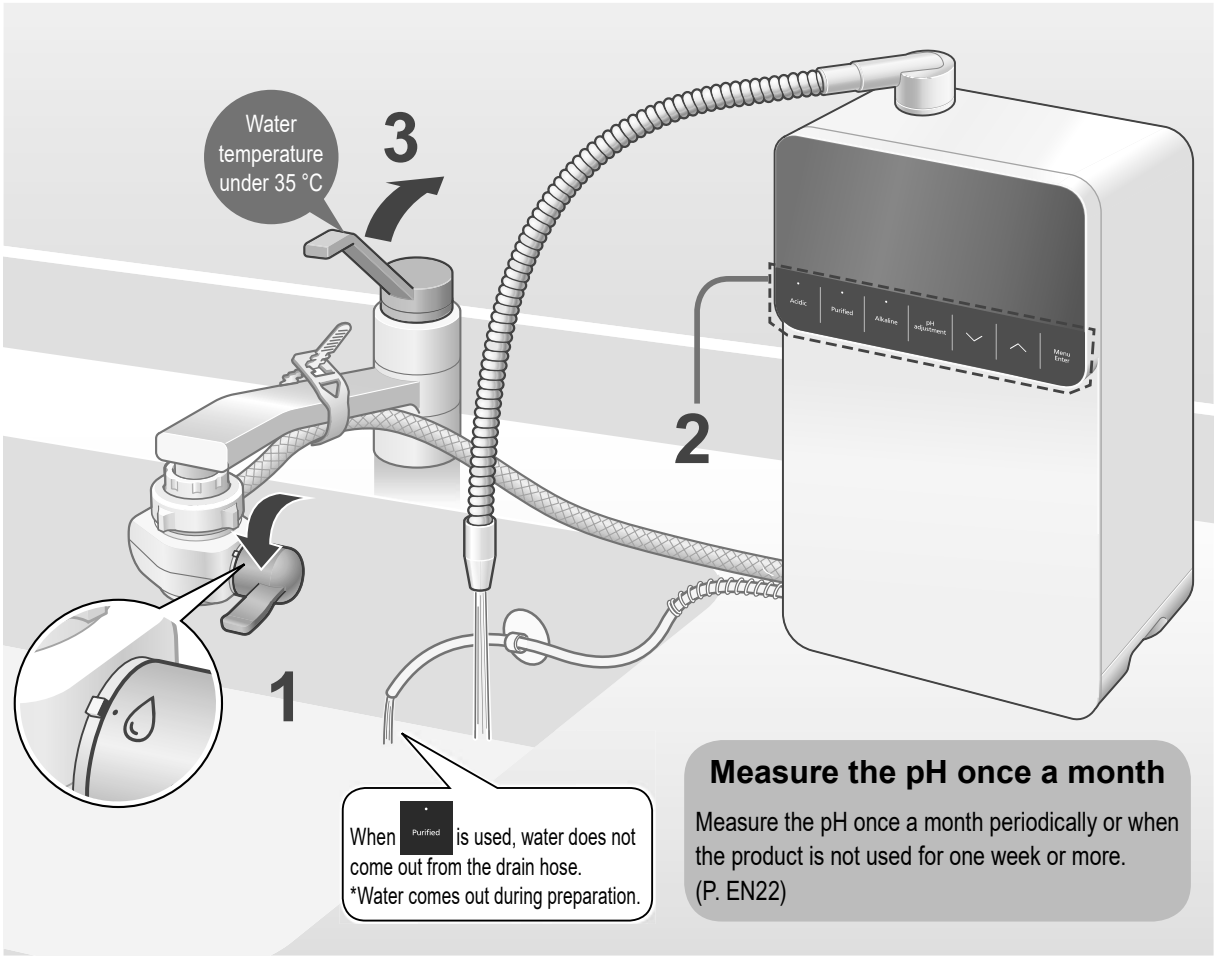


- The higher the pH, the softer the rice (pH 9.0 or less recommended)



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How to Use



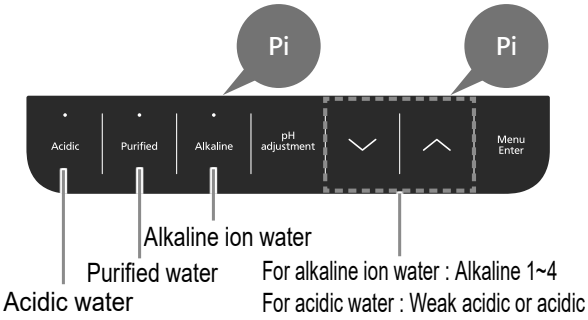
1 Set the bypass selector to · ◊ .

- When using tap water (P. EN10)

2 Select the type of water.

(P. EN24)

- The water quality indicator of the selected water lights up. (Blinks during preparation.)



3 Open the faucet.



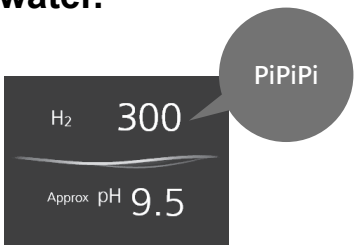
- Preparation time blinks during preparation, and the display changes as shown below while blinking.
  Start of preparation :
  End of preparation :

■ During preparation or when undrinkable water quality is selected, the undrinkable mark is displayed. When is displayed, do not drink the water.

■ For acidic water (around pH3)
The water coming out from the drain hose is acidic water.
The alkaline water comes out from the main spout.

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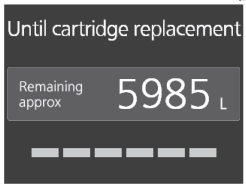
4 When Preparation time disappears and the water quality signal shows the waveform, use water.



- At the beginning of daily use, run water approx. 0.6 liters (approx. 23 seconds) before using. (P. EN7)
- Preparation time may become longer when purified water or alkaline ion water is used after use of weak acidic water or after automatic electrode cleaning.
- The color of water quality signal changes according to the type of selected water.
  - Alkaline 4 : Orange
  - Alkaline 1~3 : Blue
  - Purified water : Green
  - Weak Acidic water : Pink
  - Acidic water : Red

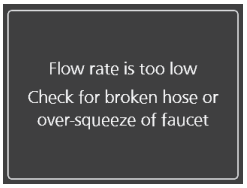
5 After use, close the faucet.





- When using the product continuously
  For 10 minutes after Alkaline level 1 to 3 or purified water is used, the same type of water can be used with short preparation time. (Water comes out from the drain hose after 10 minutes.)
- After Alkaline level 1 to 3 or purified water is used, the selected water type is stored until next use. (To change the setting → P. EN32)
  If water types other than those are used, the product is restored to the state where Alkaline level 1 to 3 is selected previously.
- Water may come out slightly from the main spout even after the water flow is stopped. It is not a malfunction. (This is water remaining in the outlet pipe.)

■ When the screen in step 5 is displayed or the following screen is displayed while water is flowing



Those screens are displayed when the faucet is not opened enough or the amount of water flow is decreased due to change in water pressure. (For alkaline ion water, weak acidic water, and acidic water, electrolysis is stopped.) Increase the amount of water flow slowly, and adjust the flow rate.

■ When a buzzer beeps for approx. 3 seconds, and Electrode cleaning is displayed (P. EN31)

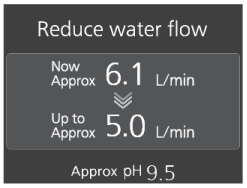
■ When a buzzer beeps continuously

While weak acidic water or acidic water is used, a warning buzzer beeps continuously. (To prevent accidental swallowing)

- To make the setting with no buzzer (P. EN32)

■ When the following screen is displayed (Only when alkaline ion water, weak acidic water, or acidic water is in use)

This is displayed when a large amount of water is flowing. (In this case, it may not be possible to achieve a high enough pH level.)



- Gradually reduce the flow from the faucet until the display is cleared*.

*

Alkaline 1~3	Flow of about 5.0 L/minute
Weak Acidic water	Flow of about 3.2 L/minute
Alkaline 4	Flow of about 2.2 L/minute
Acidic water	

- When pH adjustment is set to the “Stronger” mode, Reduce water flow tends to be displayed. (P. EN23)

■ When changing the settings (P. EN32)

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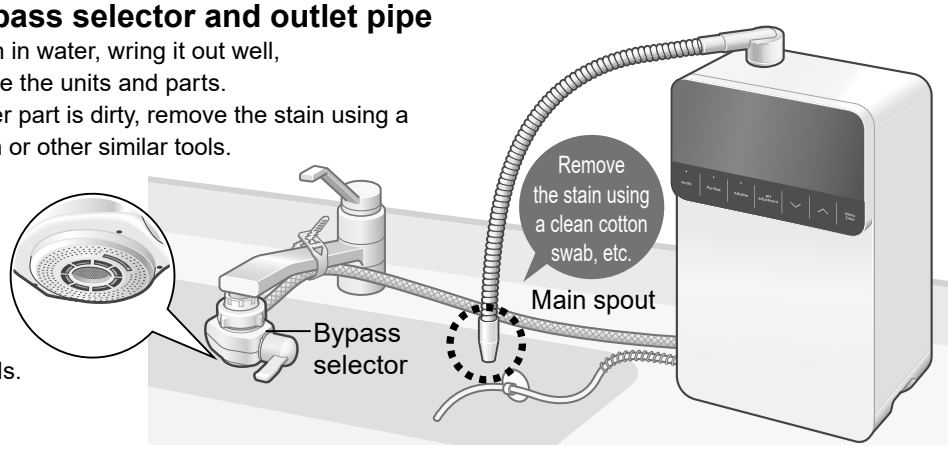
Maintenance

Important

- Do not use detergents, cleansers, paint thinners, benzine, alcohol or kerosene for cleaning purposes. If, for instance, a detergent has been used by mistake, wipe the surface with a damp cloth to remove all traces of the detergent. (Otherwise, the detergent may get mixed in with the water running through the Alkaline Ionizer or the plated parts may be damaged or peel off or the plastic parts may become damaged, discolored or deformed.)
  - Use of cleansers may also impair the workings of the outlet pipe and cause trouble.
- Do not use brushes or other implements made of metal (since they may leave scratch marks).
- Do not use a tool to tighten up the nut (since the nut may be damaged).

Main unit, bypass selector and outlet pipe

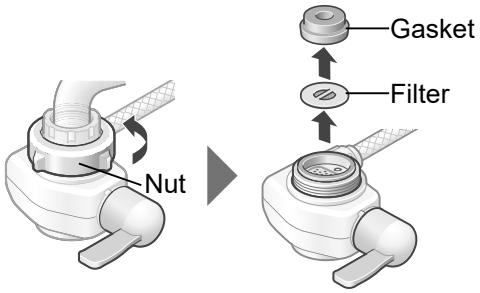
- Soak a soft cloth in water, wring it out well, and use it to wipe the units and parts.
- When the shower part is dirty, remove the stain using a clean toothbrush or other similar tools.
- When the main spout is dirty, remove the stain using a clean cotton swab or other similar tools.



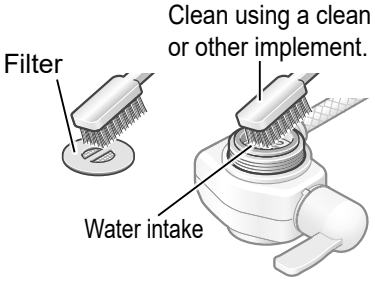
Bypass selector mounting part (filter and water intake)

1 Loosen the nut, remove the bypass selector, and take out the filter.

- Set the bypass selector to • 💧.

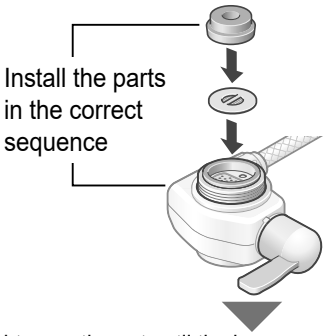


2 Wash the filter and water intake.

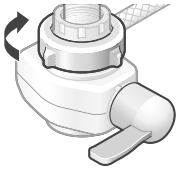


3 Install the bypass selector.

- Make sure any foreign matter is not attached on the end of the faucet and gasket inside of the bypass selector.
- Install the filter without fail.
- **After installing the bypass selector, run water for about 5 seconds at the • ⏐⏐ or • ⁞⁞⁞ setting.**



Tighten up the nut until the bypass selector does not turn.



- Make sure the bypass selector is not inclined.

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Replacing the Cartridge

When the service life of the cartridge is to be expired or the purified water ability is reduced, please replace the cartridge with a new one.



Replacement cartridge
Model No: TK-AS700C-EX
(P. EN41)

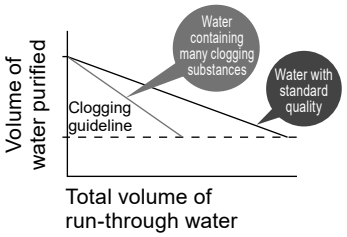
Cartridge replacement standard

There are 3 kinds of change standards. If one of the following conditions is met, please replace the cartridge.

The total run through water volume reaches 6 000 L*.	The flow of purified water or alkaline ion water suddenly decreases. (The cartridge is blocked.)	When there is smell or unpleasant smell

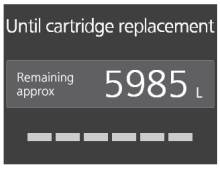
* Purification capacity (P. EN42)

- Inside the cartridge is a hollow fiber membrane filter for removing microscopic dirt. The cartridge's life will be shortened when the Alkaline Ionizer is used with a quality of water containing many clogging substances.



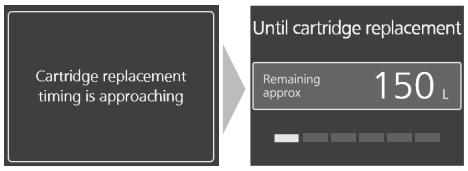
■ Check the display

Each time water is stopped, the replacement guideline is displayed for 30 seconds.



e.g. Remaining approx. 5985 L

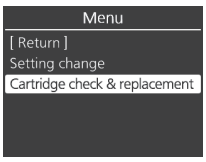
If the following screens are displayed, the replacement timing is approaching. Please prepare a new cartridge.



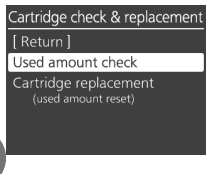
- If the guideline until cartridge replacement is "Remaining approx. 150 L" or less, the screen at left is displayed first, and 10 seconds later the screen at right is displayed with its background color changed to yellow.

■ Check the usage amount

1 **Press** Menu Enter **, select the** Pi **"Cartridge check & replacement" with** ⌄ ⌃ Pi **, and press** Menu Enter Pi **.**

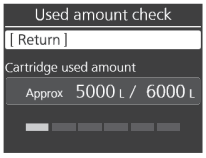


2 **Select the "Used amount check" with** ⌄ ⌃ Pi **, and press** Menu Enter Pi **.**



3 **Check the usage amount.**

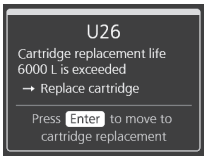
- After checking is complete, press Menu Enter to finish.



Cartridge replacement timing

If the display shows the following messages, replace the cartridge.

- U25 :Cartridge replacement timing due to clogging.
- U26 :Cartridge replacement guideline 6 000 L is exceeded



e.g.:U26

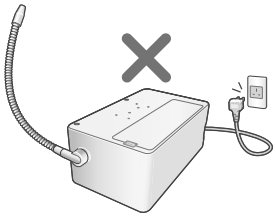
While these messages are displayed, alkaline ion water, weak acidic water, and acidic water cannot be made.

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Replacing the Cartridge (continued)

Replacing method

- Do not tip over the main unit, or face up the main spout.
  (Water may enter the inside of the main unit, resulting in a malfunction.)

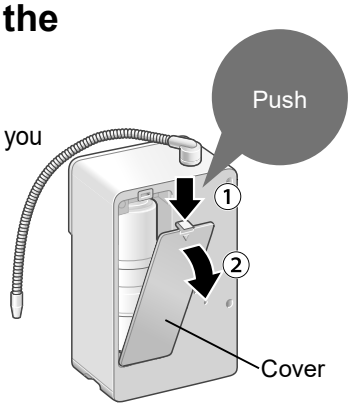


- Since the cartridge usage amount needs to be reset, do not remove the power plug when replacing the cartridge.
- Before replacing the cartridge, turn off the faucet. Do not run water through the Alkaline Ionizer with the cartridge removed.
  (Doing so will cause the water to overflow.)
- Dispose of the used cartridge in accordance with the applicable ordinances in the area concerned.
  (The material of the cartridge cover is ABS. For the type of the filter materials, refer to P. EN42.)
- The replacement method can be checked on the LCD display of the main unit.

Preparation: Please turn off the faucet.

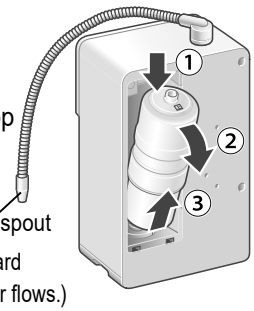
1 Remove the cover.

①Push
②Pull toward you



2 Remove old cartridge.

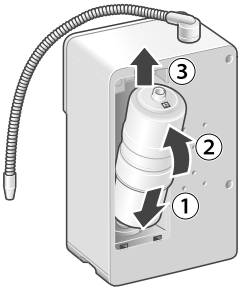
①Push down on the top
②Pull toward you
③Pull up and out



- Point the main spout toward the inside the sink. (Water flows.)
- Take care since water will drip from the cartridge. (Water may also emerge from the bottom of the unit, but this does not indicate that there is a leak.)

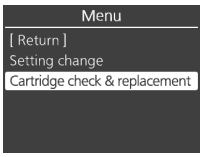
3 Install the new cartridge.

①Align the cartridge with the center of the bottom surface.
②Insert the cartridge while pushing in.
③Push up the cartridge until it clicks.

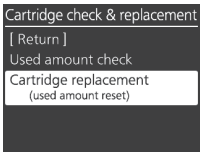


4 Reset the cartridge usage amount.

①Press Menu Enter use ∨ ∧ to select the “Cartridge check & replacement”, and press Menu Enter.



②Select the “Cartridge replacement (used amount reset)”, and press Menu Enter.

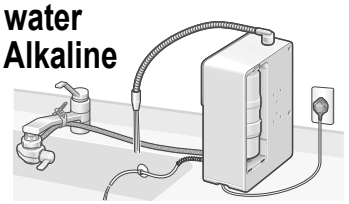


③Follow the instruction on the display, and press Menu Enter.

- Be sure to reset the cartridge usage amount even when it is replaced earlier than the replacement timing. (To display the next replacement timing correctly)

5 Open the faucet, and run purified water through the Alkaline Ionizer.

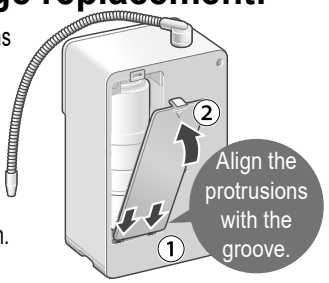
(for about 3 or 4 minutes)



- While water is running through the Alkaline Ionizer, check that water is not leaking from the area where the cartridge was installed.

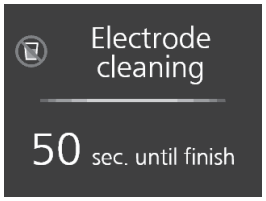
6 Turn off the faucet, and attach the cover to finish the cartridge replacement.

①Align the protrusions with the groove.
②Close the cover.
③Press Menu Enter to finish the cartridge replacement screen.



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Automatic Electrode Cleaning



If the above message is displayed...

Automatic electrode cleaning is performed to remove calcium deposited on the electrode plate

Wait for a while.

- Do not remove the power plug.
- Water coming out of the main spout and drain hose during automatic electrode cleaning cannot be used. (The water has been used during cleaning.)
- The electrode plate is located in the electrolyzer inside the main unit. Removing the calcium prevents deterioration of electrolysis capability.

Start timing of automatic electrode cleaning

After every 10 times or approx. 10 liters use of alkaline ion water and weak acidic water combined

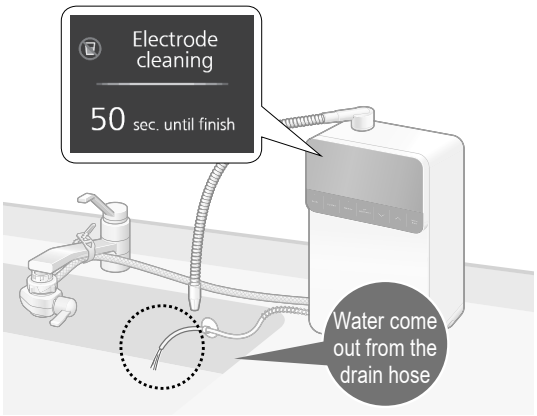
After every use of weak acidic water



When the faucet is turned off

Automatic Electrode Cleaning (50 seconds max)

50 sec. until finish ➡ The countdown is displayed.



- Do not run water until the cleaning is completed.

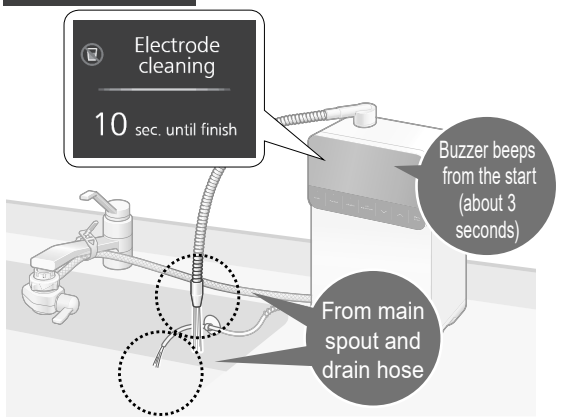
When the Alkaline Ionizer has not been used for 24 hours



When water is flowed after selecting alkaline ion water or purified water...

Automatic Electrode Cleaning (Approx. 10 seconds)

10 sec. until finish ➡ The countdown is displayed.



After the cleaning is completed, Preparation time blinks, and the water quality signal changes to blue or green. When a buzzer beeps, you can use the product.

- Do not stop water flow until the cleaning is completed. If the water flow is stopped, the same operation repeats next time water is flowed.

- Even if Electrode cleaning disappears, water may come out from the drain hose.
- Water may drip from the main spout. It is not a malfunction. (This is water remaining in the outlet pipe.)
- The automatic electrode cleaning is not performed for 10 minutes after alkaline ion water level 1 to 3 is used.

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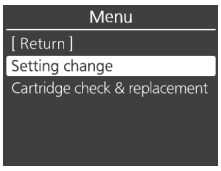
Changing the Settings

How to change

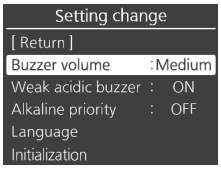
The settings can be changed according to the usage. (This operation is not available while water is flowing or during automatic electrode cleaning.)
Pressing the water quality selector buttons during operation returns to the main screen. (P. EN11)
Preparation : Turn off the faucet.

1 **Press** Menu Enter **to select the “Setting change”,** Pi

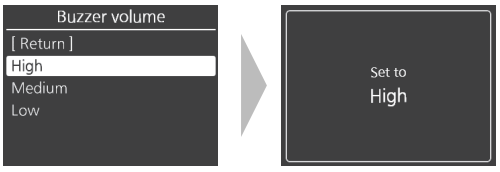
and press Menu Enter **.** Pi



2 **Select the item to be changed with** ⌄ ⌃ **,** Pi **and press** Menu Enter **.** Pi



3 **Select the setting content with** ⌄ ⌃ **,** Pi **and press** Menu Enter **.** Pi



● After the setting is complete, the screen immediately returns to the screen in step 2.
Press ⌄ ⌃ to select [Back], and press Menu Enter (twice) to return to the main screen.

Items which can be change

[ ] : Default settings

Items	Setting contents
① Buzzer volume	High / [Medium] / Low ● The buzzer volume can be adjusted in 3 steps.
② Weak acidic buzzer	[ON] / OFF ● Setting this item to “OFF” disables the buzzer while weak acidic water or acidic water is used. (P. EN27)
③ Alkaline priority	ON / [OFF] ● Setting this item to “ON” automatically restores the water quality mode to “Alkaline 1” to “Alkaline 3” previously used 10 minutes after “Purified” is used. (P. EN27)
④ Language	[English (英文)] / Traditional Chinese (繁體中文) ● You can select either “English” or “Traditional Chinese”.
⑤ Initialization	● The setting contents from ① to ④ are restored to the state at the time of purchase (factory default).

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When the Power or Water Supply is Cut Off

■ When the power supply is cut off (The breaker has operated, or the power plug is removed.)

- Turn off the faucet if the power is cut off while the Alkaline Ionizer is being used.
- Purified water comes out during power outage whichever type of water is selected. “Purified” is selected after recovery.
- Before using the product for the first time after recovery, check the settings such as type of water. The settings on page 32 as well as the guideline until the next cartridge replacement are stored.

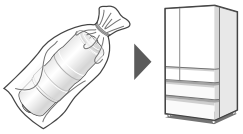
■ When the water supply is cut off

- The Alkaline Ionizer cannot be used. If the water is cut off during use, turn off the faucet.
- When the water supply is restored, set the bypass selector to • ||| or • ||||, and first run unpurified water (tap water) into the sink to run out the air and turbid water inside the pipes. The Alkaline Ionizer may then be used again as usual.
  (This is because the cartridge life will be significantly reduced.)

When not in use for a long time

■ When not used for approx. one week or longer

- Remove the cartridge (P. EN30), and store it sealed in a vinyl bag in a refrigerator.
  - Remove air from the bag, and close the opening.



■ When not used for approx. one month or longer

- Follow the above steps, and remove the power plug.

Note

- Storing the cartridge for a prolonged period may alter the quality of the water within the cartridge, so replacing the cartridge is recommended.
  When water smells or tastes strange, press the Acidic button, and run weak acidic water for approx. 15 seconds.

■ To use this unit again

①Install the cartridge (P. EN30)

②Connect the power plug

③Run water for approx. 3 minutes, and check before using that there is no water leak or no abnormality in operation and display.

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When Moving the Alkaline Ionizer

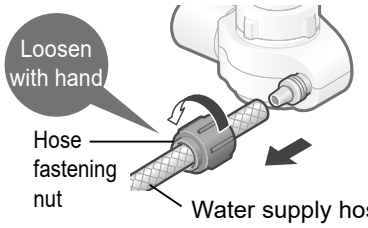
Remove water from the main unit with the following steps before moving the product.

- Stand the main unit while moving. After removing the water, a small amount of water may remain, so put the main unit in a bag, etc.

1 Repeat connection and disconnection of the power plug 2 to 3 times, and remove the power plug.

- Each time the power plug is connected and disconnected, water comes out from the drain hose for approx. 15 seconds.

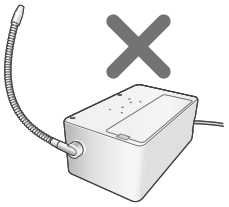
2 Disconnect the water supply hose.



- After disconnecting the water supply hose, attach the hose fastening nut to the original position of the bypass selector (loss prevention).

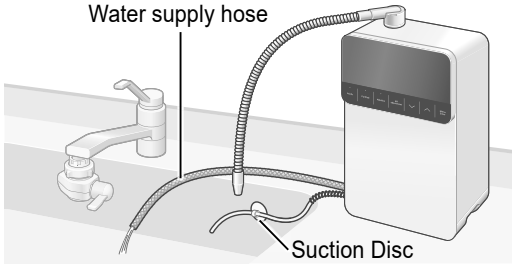
3 Stand the main unit, and remove the cartridge.

(P. EN30)



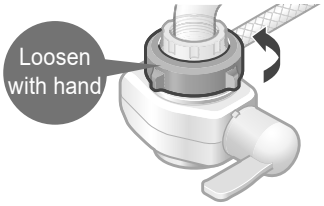
- When the cartridge is removed or is in the removed state, do not face the main spout up, or tip over or reverse the main unit. (Water may enter the inside the main unit, resulting in a malfunction.)

4 Put the tip of the water supply hose at a position lower than the main unit, and discharge the water remaining in the hose.



5 Remove the suction disc fixing the drain hose, and attach the cartridge cover to the original position. (P. EN30)

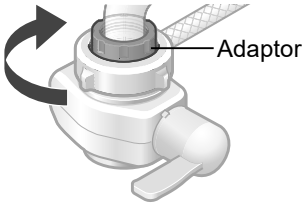
6 Loosen the nut, remove the bypass selector, and remove the water inside.



■ When the joint is difficult to remove

After tightening the nut firmly with hand, rotate it together with the bypass selector. Then it can be removed easily.

- If it still cannot be removed, use a tool such as a plier to nip the foam joint, and remove it.



- When using a tool such as a plier, protect the joint with cloth, etc. not to damage it, and pay attention to the rotation direction.

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Q&A

	Question	Answer
Cartridge	**What is the part number of the cartridge for replacement?**	TK-AS700C-EX (P. EN41) 
	Is it possible to use the cartridge exceeding the amount of 6 000 liters?	**For usage, we have confirmed a removal capacity of 6 000 liters by running water. The cartridge cannot be used beyond the amount.** (Depending on the water quality, it may not be used even less than 6 000 liters.) When using 15 liters of water per day, it is recommended to replace the cartridge in approx. one year.
Tap water	**Can I use underground water or well water?**	**Only the water that has passed a test for drinking can be used.** Depending on the water quality of tap water, the specified pH may not be obtained.
	What is the relationship between tap water quality and pH?	**See P. EN23.**
	Up to what temperature can I use for hot water?	**Water with a temperature of less than 35 °C can be used.** (P. EN9) When the bypass selector is adjusted to • ⎵ or • ⎵, water with a temperature of less than 80 °C can be used.
Alkaline ion water	**Which level is appropriate for first drinking?**	**Start with alkaline level 1.** (P. EN5) For the first 2 weeks, start drinking a small amount of water (one or two cups) with alkaline level 1. As you get used to alkaline ion water, gradually increase the alkaline level to 2 and next 3. (If you start drinking alkaline ion water with level 3, your health may be impaired.)
	Is it ok to take a medication with the alkaline ion water?	**Use the Purified Water setting for the water to take your medicine with.** You can use alkaline ion water for drinking, cooking and purposes other than taking medicine.
	What should I do if I get diarrhea or a rash after I start drinking alkaline ion water?	**Stop drinking alkaline ion water, and consult a doctor.** While consulting the doctor, say that: • The alkaline ion water has more mineral contents (calcium, magnesium, sodium, potassium, etc.) than tap water. • The water you have been drinking is alkaline with about pH 8 to 9. (in the case of alkaline ion water level 1)
	I have kidney trouble. Is it ok for me to drink alkaline ion water?	**Consult a doctor before drinking alkaline ion water.** While consulting the doctor, say that: • The alkaline ion water has more mineral contents (calcium, magnesium, sodium, potassium, etc.) than tap water. • The water you are thinking of drinking has an alkalinity with a pH level of 9.5 or so.

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Q&A (continued)

	Question	Answer
Alkaline ion water	**How long do the alkaline ion water and purified water "keep"?**	**Use it within 1 day at room temperature.** When alkaline ion water is produced, the chlorine (sterilizer) in the tap water is removed off, making it easier for bacteria to proliferate. • Even when storing alkaline ion water in the refrigerator, keep it in a clean sealed container, and use it within 2 days. • Also use weak acidic water within 2 days.
	Can I use alkaline ion water to make ice?	**Use the ice made from alkaline ion water in the same you would with the ice made from tap water.** • If you store alkaline ion water in the tank of a refrigerator equipped with an automatic ice-making function, change the water within 2 days.
	White substances float in water where ice made using alkaline ion water has melted.	**These are minerals contained in the water.** When water is frozen, the minerals solidify on the surfaces of the ice. There is no problem if you swallow the white bits.
	What else can I do with alkaline ion water besides drinking it?	**You can use it for cooking, making rice, making tea just as you would with regular water. (P. EN25)**
	When I use alkaline ion water to cook rice, **the rice becomes sticky**	**Either reduce the pH level of the alkaline ion water or use Purified Water.** • The rice may be sticky or yellow depending on the amount of water and the type of rice and rice cooker used.
	How much calcium is contained in alkaline ion water?	**Due to electrolysis, there are 20 % to 30 % more calcium ions in alkaline ion water than in the source water.**
	What kind of water should infants or toddlers be drinking?	**We recommend you to start drinking from purified water.** As babies are weaned, start using alkaline ion water gradually with the "Alkaline 1" setting. (Because infants have less developed stomachs and intestines than adults.)
Hydrogen	**What is the hydrogen concentration** displayed when alkaline ion water is used?	**It is the amount of hydrogen (guideline) that occurs at the electrode while alkaline ion water is generated.**
	How long will the produced hydrogen stay in the alkaline ion water?	**The molecular of hydrogen is very small, therefore, it will reduce by a half in 2 days even if it is placed in a closed container, such as PET bottle.** **In non-closed container, all the hydrogen will outflow in one day.** **For heated situation, the hydrogen will evaporate at the same time of boiling.**

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Acidic water and water discharge

What kind of water is the one coming out from the drain outlet?

The type of water differs depending on the water coming out from the main spout.

- It is acidic water if alkaline ion water is coming out from the main spout.
- It is alkaline water if weak acidic water is coming out from the main spout.

(When purified water is coming out from the main spout, no water comes out from the drain hose.)
(The quality of water coming out from the drain hose during Preparation time changes depending on the quality of water used last.)

Water coming out from the drain outlet cannot be drunk.

Drink the acidic water by accident

Please do not worry if the amount is little (about 1 cup).
But do not drink any more.

- Please seek for doctors for advice in case of discomfort.

What is pH of water coming out from the drain hose while alkaline ion water is used?

See the table on the right.

■ pH of acidic water coming out from the drain hose while alkaline ion water is used

Alkaline ion water	Alkaline 1	Alkaline 2	Alkaline 3	Alkaline 4
PH level of the acidic water*	5.0~6.5	4.0~5.5	3.0~4.5	2.6~ 3.0

* Differs depending on the water quality, flow rate and mode of tap water.

What are the proportions of water that flows out from the main spout and drain outlet respectively?

See the table on the right.

■ Ratio of water from the main spout to water from the drain outlet

	Mode	Ratio of water from the main spout to water from the drain outlet
Alkaline 1/2/3	Standard/Milder	16 : 1*
	Stronger	5 : 1
Alkaline 4	Standard/Milder	5 : 1
	Stronger	5 : 1
Weak acidic water	Standard/Milder	5 : 1
	Stronger	
Acidic water	Standard	1 : 5

* When the amount of water flow is small (1.2 L/min): 5:1

Others

What does a service life of 850 hours for the electrolyzer mean?

It means that the cumulative total time (including cleaning time) that enables electrolysis in the electrolyzer is 850 hours. (equivalent to approx. seven years with use of 20 minutes a day)
When the electrolyzer is powered-on, the electrode plate will be consumed.

- When replacement is necessary, H51 is displayed.

Can I disconnect the power plug when the product is not used?

Do not disconnect the power plug even while you're not using the Alkaline Ionizer.
This is to perform automatic electrode cleaning and display the guideline for cartridge replacement timing correctly. (Using purified water with the power plug disconnected will not accumulate the usage time.)

White powder is attached on the kettle or electric thermos flask.

It is the calcium from the water.
There is no problem if you drink the water, but if it bothers you, clean the containers concerned.

- If the white powder is not removed by cleaning, obtain some citric acid from a pharmacy, mix 50 g with 1 liter of water, leave to soak in the containers for 2 or 3 days, and then rinse the deposit off. (Buy citric acid at a pharmacy.)

Noise occurs when a radio is placed near the product.

Move the radio away from the Alkaline Ionizer.

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Before Requesting a Repair Service

First, check P. EN38 to P. EN40.

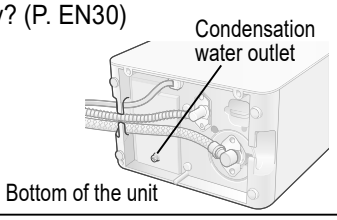
If the problem is not solved after the following contents are checked

Disconnect the power plug, and contact the dealer where you purchased the product.

- Disconnecting the power plug once and inserting it again after approx. five seconds may restore the product to the normal state.

	Problem	Check point
Display (LCD display)	**The power turned off suddenly. Nothing is displayed.**	● To save energy, the display automatically turns off when the product is not used. ● Is the power plug disconnected?
	Preparation time does not disappear.	● When water is flowed immediately after installation or cartridge replacement, Preparation time is displayed, and the countdown is displayed for approx. 20 seconds. (P. EN19, EN30) → Keep running the water for 3 or 4 minutes. (The air inside the cartridge is being expelled.)
	When water is flowed, **a buzzer beeps, and Electrode cleaning is displayed.**	● The electrodes are being automatically cleaned. (P. EN31) → Use the product after waiting for the display to disappear (approx. 10 seconds).
	The display changes to Alkaline 1 to 3 after Alkaline 4, Weak Acidic water or Acidic water was used	● In the case of Alkaline 4, weak acidic or acidic water, when water flow is stopped, the type of water used previously (Alkaline level 1 to 3) is restored. (P. EN27)
	After using purified water, **the display will change into Alkaline**	● Is the “Alkaline priority” mode selected? (P. EN32)
	Although water flow is not stopped, **the cartridge replacement guideline is displayed.**	● Is the amount of water flow too small? (less than approx. 1.0 liter/min) • The flow volume may have decreased due to change in water pressure. • Flow more water.
	The U26 code is not cleared even after the cartridge is replaced	● Have you forgotten to reset the cartridge life? (P. EN30)
	Reduce water flow **is displayed**	● Reduce the degree of opening of the faucet. (P. EN27)
pH measurement	**The alkaline ion water does not become alkaline.**	● Did you select alkaline ion water? (P. EN26) ● Some type of tap water may not become alkaline. (due to effect of carbonic acid within water) → Make adjustment according to the table on P. EN23. ● Is the drain hose bent or flattened? (Electrolysis will not be performed properly)
	The pH level of weak acidic water is neutral	● If the pH level of weak acidic water is 6.5 or so, it may not be possible to distinguish it from the pH 7.0 level (neutral) in the pH Chart. → Measure the pH level of water coming out from the drain hose while using weak acidic water, and confirm the level is pH 10 to 11. (If this is the case, the level of weak acidic water is approx. pH 6.5.)

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	Problem	Check point
Water leakage	**Faucet and connection parts of bypass selector, water supply hose, and outlet pipe**	● See P. EN20~EN21.
	Bypass selector (location other than the water outlet selected with the bypass selector) Though the bypass selector is adjusted to · ◌ , water drips from the source water opening.	● The cause seems to be calcium, etc. depositing inside the bypass selector. → Dissolve approx. 50 g of citric acid in 1 liter of water. Remove the bypass selector (P. EN28) and hose, soak them in the citric acid water for approx. 12 hours, and wash them with water. (Buy citric acid at a pharmacy.)
	Bottom of the unit	● Has the cartridge been installed securely? (P. EN30) ● Depending on the temperature and humidity conditions, water formed from condensation may collect inside the unit. (This is not a malfunction) 
Main spout	**Water drips or trickles out of the main spout** even when the water is cut off	● This is not a malfunction. (The water flows out is the water residing in the piping.)
	No water or very little is discharged from the Alkaline Ionizer	● Is the faucet fully open? ● Is the filter of the bypass selector clogged? → Perform maintenance. (P. EN28) ● Has the water supply been cut off ? (P. EN33) ● Is the water supply hose bent or flattened? **If the problem is still not solved after all of the above are checked, the cartridge may be clogged. Replace the cartridge. (P. EN30)**
	Flow rate is too low **is displayed**	
	Not much water comes out of the Alkaline Ionizer after the cartridge has been replaced	● Did you run water for approx. 3 to 4 minutes after replacement? (P. EN30) (It is necessary to remove the air inside the cartridge)
	Much water comes out	● The water amount from the main spout varies depending on the kind of water and/or selection of the water quality even though the amount of source water stays constant. ● Maximum flow varies depending on the kind of water and/or selection of the water quality.
	Reduce water flow **has become more likely to be displayed**	
	The water comes out from the main spout is warm	● At an early stage of running of water, the water warmed by the room temperature or heat inside the Alkaline Ionizer while water flow is stopped may come out. (This is not a malfunction. Allow the water to flowing before uses.)

When necessary

English

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Before Requesting a Repair Service (continued)

	Problem	Check point
Drain hose	**Water is drained even after the faucet is closed.**	● Water inside the main unit is drained every after use. (P. EN27, EN31)
	Water is not drained while water other than purified water is used.	● Is the drain hose bent or flattened? • If water keeps running, it may cause malfunction. Also It can not electrolysis correctly. ● Is Reduce water flow displayed? (P. EN27)
Sound and buzzer	**A buzzer does not beep while weak acidic water or acidic water is used.**	● Has “Weak acidic buzzer” been set to OFF? (P. EN32)
	Sounds are heard from the unit after the faucet has been turned off	● A clicking sound may be heard from the main unit before water is drained. (This is not a malfunction)
Odor, taste, turbidness, and change in color	**The water produced by the Alkaline Ionizer has an odor or unpleasant taste or is turbid**	● Purification performance of the cartridge is deteriorated. → Replace the cartridge. (P. EN30) ● If an odor occurs within 2 to 3 months after the cartridge is replaced, the water discharge line or waste water line may be soiled. → Press the Acidic button, and run weak acidic water for approx. 15 seconds.
	The smell at the beginning of use of water concerns me.	● Since water is accumulated inside the main unit for 10 minutes after Alkaline level 1 to 3 and Purified are used, there are rare cases where some people are sensitive to the smell of the main unit. → If the smell concerns you, after a buzzer beeps, run water for a while before using.
	The weak acidic water has an odor	● Electrolysis causes the chlorine ions in the water to collect in weak acidic water, forming hypochlorous acid. → There’s no problem if you use it as is.
	White suspended matter is mixed in with the alkaline ion water	● White floating matter is calcium deposited inside the main unit. ● Foam-like floating matter is the air inside the main unit or hydrogen foam generated during electrolysis. (There’s no problem if you use it as is.) • This foam tends to be much generated after installation or cartridge replacement. • In the case of weak acidic water, oxygen foam is generated.
	Alkaline ion water or purified water looks **shiny.**	● It is due to the precipitation of the components (mainly minerals) which are dissolved in the water. → There’s no problem if you use it as is. But if it bothers you, use the Alkaline Ionizer at a reduced pH (ion concentration) level.

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Optional Accessories

Obtain all optional accessories from your dealer.
For details on how they are used, refer to the accompanying instructions.

Consumables

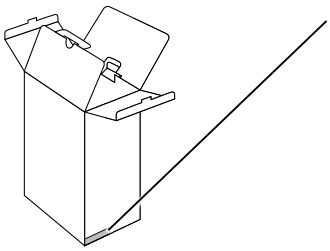
Replacement cartridge
Model No : TK-AS700C-EX

For use with large faucet

Large-diameter Faucet Fitting (inside diameter 32.5 mm)
Model No : WTK7205X7378

- For faucets whose end diameter is 24 ~ 32 mm

Mark position of the manufacturing number



The manufacturing number is marked on this location.

E.g.: 2 2 0 9 0 1

- Day : two digits
- Month : two digits
- Year : last two digits of the year

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Specifications

Rated voltage, frequency, input current		220-240 V ~ , 50 Hz, 0.65 A		
Rated power consumption		Approx. 130 W (approx. 1 W during standby)		
Main unit	Dimensions	Approx. 180(W) × 115(D) × 328(H) mm (Depth including LCD display: 123 mm)		
	Weight	Approx. 3.8 kg (approx. 4.3 kg when full of water)		
Temperature of water used by Alkaline Ionizer		Under 35 °C (under 80 °C for bypass selector)		
Pressure of water used by Alkaline Ionizer (dynamic pressure)		70 kPa to 350 kPa		
Usable water service pressure (static pressure)		70 kPa to 750 kPa		
Electrolysis	Electrolysis method	Continuous electrolysis		
	Output water volume (flow of water produced)	Alkaline water : 1.5 L/min. [at 100 kPa water pressure] (“Standard” mode) Weak acidic water : 1.3 L/min. [at 100 kPa water pressure]		
	Electrolysis capability selection	Alkaline: 4 levels; weak acidic: 2 levels		
	Continuous operation capability	Approx. 10 minutes at room temperature		**(Note 1)**
	Electrolyzer life	Approx. 850 hours cumulative (ion water production time, cleaning time only)		
	Electrolytic cleaning	Auto cleaning method		
Purified water output volume		1.6 L/min. [at 100 kPa water pressure]		
Filtration flow volume		1.6 L/min. [at 100 kPa water pressure]		**(Note 2)**
Cartridge Installed In the unit		TK-AS700C-EX		
Purification capacity		Free residual chlorine	6 000 L	**(Note 2,3)**
		Turbidity	6 000 L	**(Note 2,4)**
		Chloroform	6 000 L	**(Note 2,5)**
		Total trihalomethane	6 000 L	**(Note 2,5)**
		Bromodichloromethane	6 000 L	**(Note 2,5)**
		Dibromochloromethane	6 000 L	**(Note 2,5)**
		Bromoform	6 000 L	**(Note 2,5)**
		Tetrachloroethylene	6 000 L	**(Note 2,5)**
		Trichloroethylene	6 000 L	**(Note 2,5)**
		CAT (pesticide)	6 000 L	**(Note 2,3)**
		2-MIB (mold smell)	6 000 L	**(Note 2,3)**
		Soluble lead	6 000 L	**(Note 2,3)**
		1,2-DCE	6 000 L	**(Note 2,5)**
		Benzene	6 000 L	**(Note 2,5)**
		Geosmin (mold smell)	6 000 L	**(Note 2,3)**
		Phenols	6 000 L	**(Note 2,3)**
		Carbon tetrachloride	6 000 L	**(Note 2,6)**
Removable substances		Iron (particulate form)	Can be removed	**(Note 7)**
		Aluminium (neutral)	Can be removed	**(Note 7)**
Guide for time to replace cartridge		Approx. 1 year		**(Note 8)**
Filter material		Non-woven fabric, ceramic, activated carbon, hollow fiber membrane		
Components which cannot be filtered out		Iron dissolved in water, heavy metals (silver, copper, etc.), salt (seawater)		
Length of power cord		Approx. 3 m		
Power protection device		Current fuse: 2.5 A		

* All figures given are for a water temperature of 20 °C. * This product cannot convert hard water into soft water.
* The total volume of water coming out of the main spout, drain hose is given as the run through water volume and daily volume of water used.
* Activated carbon uses powdered activated carbon and granular activated carbon.

(Note1) This period may be shorter depending on the water quality and usage environment.
(Note2) The amount of water that can be used with Alkaline 1 to 3 in Standard Milder mode is equivalent to about 94 % of the filtration flow volume (water purifying capacity).
(Note3) This value is for a removal rate of 80 % based on JIS S 3201 tests.
(Note4) This value is for a filtration flow volume of 50 % based on JIS S 3201 tests.
(Note5) This value is for a removal rate of 80 % based on JIS S 3201 Annex A tests.
(Note6) This value is for a removal rate of 80 % based on specification standard tests (JWPAS B standards) stipulated by the Japan Water Purifier Association (JWPA).
(Note7) This substance is for a removal rate of 80 % based on specification standard tests (JWPAS B standards) stipulated by the Japan Water Purifier Association (JWPA). Note that it is not stipulated as part of purification capacity.
(Note8) This period applies when 15 liters of water are used a day. If 30 liters are used a day, the cartridge usage limit will be approximately one-half. The period may also be significantly less depending on the amount of water used and on its quality and pressure.

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Memo

English

TK-AS700_En.indb 43 2022/06/23 14:08:08

Inspection	Check the Alkaline Ionizer you've been using for years!		
	Are any of the following symptoms applicable?	• Nothing appears on the LCD display even though the power plug has been connected. • An error code (U21 to U28) has appeared, and it re-appears even after taking remedial action. • An error code (H31 to H39) has appeared. • Some other trouble or failure has occurred.	If any of these symptoms have occurred, disconnect the power plug from the power outlet in order to prevent accidents, and be absolutely sure to ask your dealer to check out your unit.

愛心檢查	請對長年累月使用的鹼性離子整水器進行檢查		
	是否有這樣的現象？	• 就算已將電源插頭插入，仍沒有任何顯示出現 • 出現異常顯示（U21 ~ U28），即使處理異常顯示依舊出現 • 出現異常顯示（H31 ~ H39） • 出現其他異常現象或故障	出現以上現象時，請停止使用，避免故障或事故發生。從插座拔下電源插頭，務必委託經銷商或Panasonic直屬服務站人員檢查。

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