

Panasonic®

Operating Instructions 使用說明書

Alkaline Ionizer For Household Use

電解水機 家庭用

ALCare

Model No. **TK-AS500**



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 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 (2023. 6. 4))

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 (2023年6月4日))

English

中文(繁體)

The Alkaline Ionizer

- The Alkaline Ionizer produces alkaline ion water and acidic water by electrolysis.
 - The substances that can be removed with the cartridge are as follows.
- | | | |
|--|---|---|
| <ul style="list-style-type: none">• Free residual chlorine• Turbidity• Chloroform• Total trihalomethane• Bromodichloromethane• Dibromochloromethane | <ul style="list-style-type: none">• Bromoform• Tetrachloroethylene• Trichloroethylene• CAT (pesticide)• 2-MIB (mold smell)• Soluble lead | <ul style="list-style-type: none">• 1,2-DCE• Benzene• Geosmin (mold smell)• Phenols• PFOS and PFOA• Iron (particulate form)• Aluminum (neutral) |
|--|---|---|

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Safety Precautions

Please make sure to follow these instructions

In order to prevent any harm to human body or damage to property, always follow the instructions below.

- **The following classifies the degree of risks of harm and damage caused by incorrect use of the product.**

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

- **Precautinary symbols are classified as shown below.**
(The following are examples of symbols.)

	This symbol indicates prohibition.		This symbol indicates requirements to be observed.
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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 forcibly
 - 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 power 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 shock.)
- **Insert the power plug firmly.**
(Failure to do so can cause smoke, fire and/or electric shock.)
 - Do not use damaged plugs or loose outlets, as such cannot be inserted securely.
- **Remove dust or other foreign matter on the power plug periodically.**
(If dust or other foreign matter accumulates on the plug, moisture may cause insulation failure, resulting in a fire.)
 - Disconnect the power plug, and wipe it with a dry cloth.
- **If the main unit falls into water by accident, disconnect its power plug from the power outlet, and take the main unit out of the water.**
(Otherwise an electric shock may occur.)
→ Please contact a dealer for inspection or maintenance.

WARNING

Pay attention to the following precautions

-  ● **Do not disassemble, repair or remodel the unit.**
(Doing so can cause a fire and/or electric shock.)
→Please contact a dealer 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 using the product immediately and unplug the power plug.**
(Failure to do so can cause smoke, fire and/or electric shock.)
<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 for inspection or maintenance.

CAUTION

Pre-existing conditions and health problems

-  ● **People with kidney disease (such as renal failure and defective potassium excretion) 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 an accident or health problems may result.)
- **People with the following conditions should consult a doctor before drinking alkaline ion water.**
 - People receiving medical treatment from a doctor
 - People with health problems or weakened constitution (People feeling sick)
 - People with kidney diseases other than renal failure or defective potassium excretion
(Doing so may cause health problems.)
- **People in the following situations should consult a doctor before applying acidic water to their skin.**
 - People with sensitive skin
 - People susceptible to allergic dermatitis
(Doing so may cause health problems.)
- **When drinking for the first time, drink only a small amount [1 to 2 cups per day] of “Drinking Water (Alkaline) 1”, and continue to drink about 2 weeks for adaptation to your body; afterwards, you can drink “Drinking Water (Alkaline) 2” or “Drinking Water (Alkaline) 3”.**
(Drinking alkaline ion water with high alkalinity from the beginning or drinking a large amount (more than 3 cups) of it may be harmful to the health.)

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, interrupt the output of water or cause other problems.)
- **Do not connect a hose or any other appliances to main spout.**
(Doing so may cause water leaks or malfunctions.)
- **Do not 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 (equipped with a structure that does not stop water at the hot water outlet) [such as an instantaneous water boiler].**
(Doing so may cause a 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, resulting in 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 it 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.**
(Since the Alkaline Ionizer removes sterilizers (such as chlorine), the water quality is altered over time, possibly causing health problems.)

In case of abnormality



- **If you feel sick after drinking alkaline ion water, or if the symptom does not improve after continued use, stop drinking the water and consult a doctor.**
(Otherwise health problems may result.)
- **If you experience skin problems after applying acidic water to your skin, stop using it immediately, and consult a doctor.**
(Otherwise health problems may result.)

Hot water



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

CAUTION

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



- **Do not drink the following kinds of water.**
 - Acidic water
 - Water that comes out of the drain hose
 - Water that comes out from the main spout while the water quality signal is blinking (Doing so may cause health problems.)
- **Do not take medicine with alkaline ion water.**
(Doing so may cause health problems.)
- **Do not directly drink water with a pH level of 10 or above.**
(Doing so may cause health problems.)
 - A pH level of around 9.5 Drinking Water (Alkaline) 3 is recommended. Keep the general amount of water consumed daily at around 0.5 liter to 1 liter.

- **Do not use alkaline ion water, acidic water, or purified water for the care of fish, etc.**
(The fish, etc. may die due to the change in the environment.)



- **Do not use aluminum containers vulnerable to alkalis or copper containers vulnerable 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. 18 seconds) before using.**
- **If 2 days or more have passed after the last use, run water approx. 8 liters (approx. 4 minutes) before using.**
(Using residual water inside the main unit may cause ill health.)

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 cause accidental swallowing of accessories.)
 - 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 over 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 it in your eyes. Keep the liquid 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 it off 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.

Operating Precautions

Water supply

- **Do not drink water in case of the following conditions.**
 - Very turbid water, 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.)
- **When using the product in areas where the hardness of tap water is high*, discharge acidic water for about 1 minute before using every day.**
(Otherwise, the calcium will attach in the main spout and the passage of water, resulting in poor water run.)
 - * In areas where the hardness of water is high, soaps poorly lather up, and white matter (calcium) will attach to teapots and pots.
- **Depending on 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 the following locations.**
 - Near hot areas such as heating appliances (60 °C or above)
(The product may become deformed.)
 - Where the product is exposed to direct sunlight, or wind and rain
(An operational error or malfunction may occur.)
 - Where freezing may occur
(Cracking in the water pipes or cartridge may occur.)
 - Where the product tends to be subject to oil
(The main unit may be cracked.)
 - In a bathroom or where the product is exposed to water or steam
(An operational error or malfunction may occur.)
 - In areas lower than the kitchen counter (such as the floor)
(Water may not be drained completely.)
 - Near radios
(Radio wave interference or noise may occur.)
- **Do not connect the Alkaline Ionizer to a hot water-dedicated 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 lay down the main unit for use.**
(Doing so may cause malfunction.)
- **Use water with the temperatures shown in the table below.**
(Failure to do so may cause damage, or cause trihalomethane adsorbed by the cartridge to be partially discharged.)



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

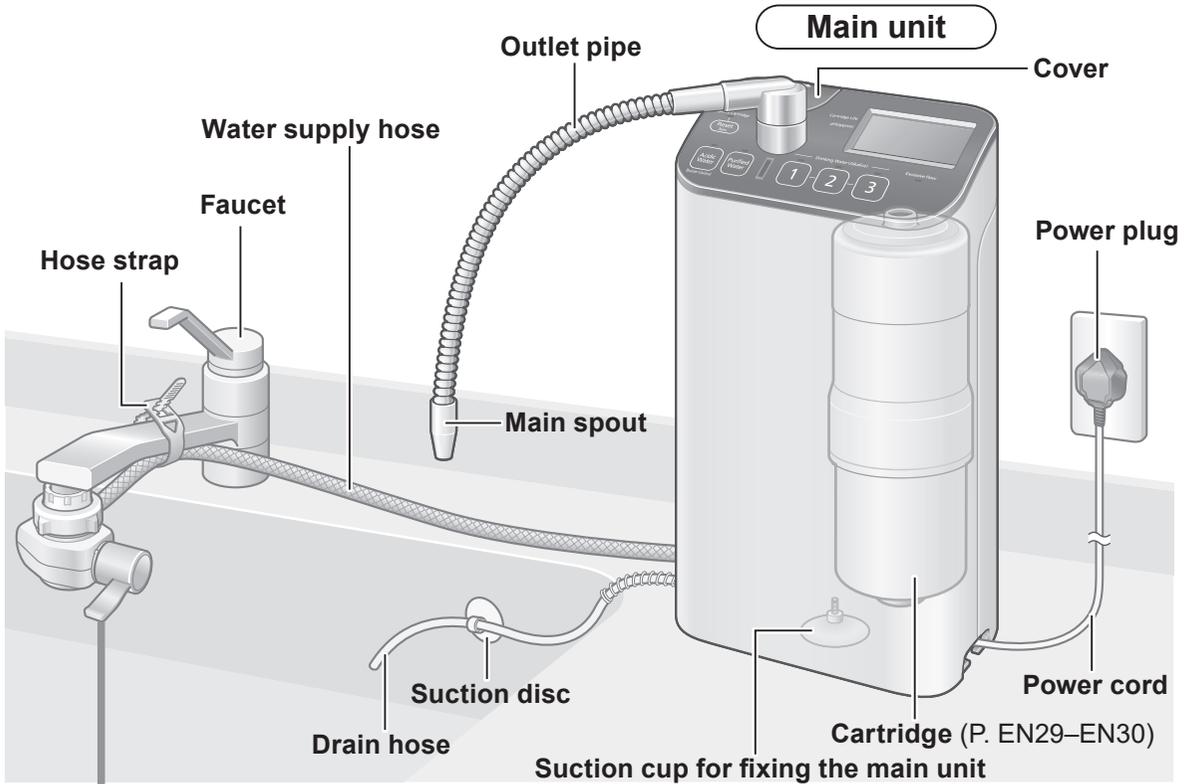
- **Do not continuously use alkaline ion water and acidic water for approx. 10 minutes or more.**
(Using such water approx. 10 minutes or more displays U27, and stops electrolysis.→P.EN35)

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

- **Store the pH test liquid in a place without direct sunlight.**
(Discoloration of the liquid may result in incorrect measurement)
- **To dispose of the pH test liquid, dilute it with water and discharge it into sewage.**



Part Names and Steps to Take Before Operation



Bypass selector

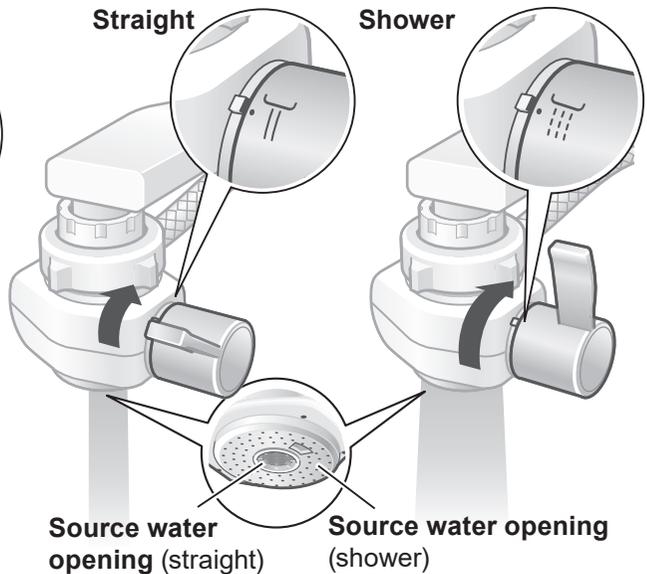
When using alkaline ion water, etc.

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.



Control panel

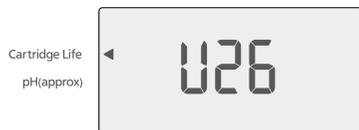
Display



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



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



- Displays an error of the main unit. (P. EN29, EN35)

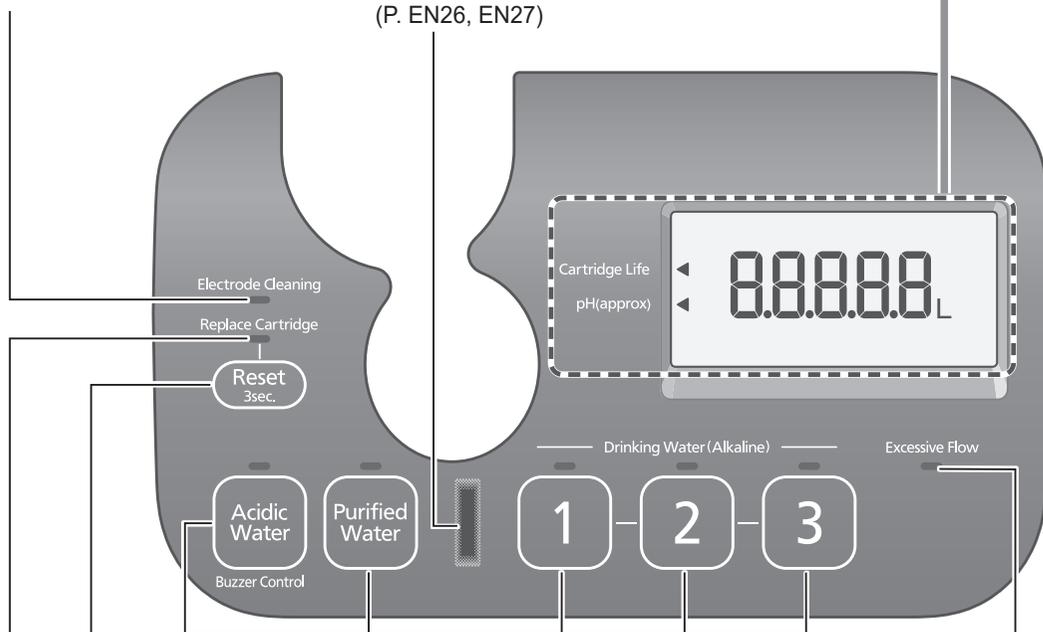
Electrode cleaning indicator (Red)

Lit during electrode cleaning. (P. EN31)

Water quality signal (Yellow, Green, Pink)

Lights up when the water selected during preparation is ready to be used.

The color changes according to the type of set water. (P. EN26, EN27)



Reset button

Press this button after the cartridge is replaced. (P. EN30)

Cartridge replacement indicator (Red)

Indicates the replacement timing. (P. EN29)



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

Water Quality Selector Button
Selects the water quality.

Drinking Water (Alkaline) 1

Excess flow indicator (Red)

Blinks in the case of excess flow of water.

The illustrations on this page are display examples for explanation purposes.

Steps to take before operation

Installation 1

Check the main unit and supplied accessories

P. EN13

Installation 2

Check the shape of faucet

P. EN14



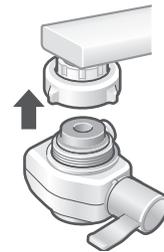
Installation 3

Attach the bypass selector

The attaching method differs depending on the shape of faucet.

P. EN15

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P. EN17

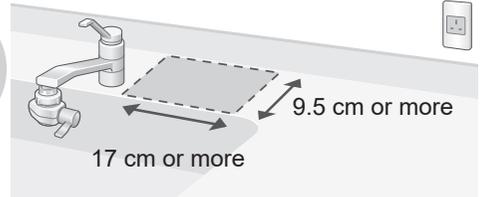


Installation 4

Install the Alkaline Ionizer

P. EN18

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P. EN19



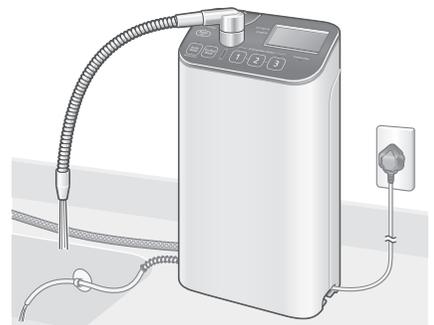
Installation 5

Check after installation

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

P. EN20

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P. EN21

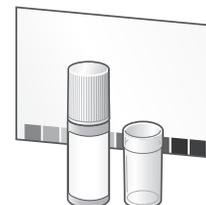


Installation 6

Measure and adjust the pH level of water

P. EN22

–
P. EN23

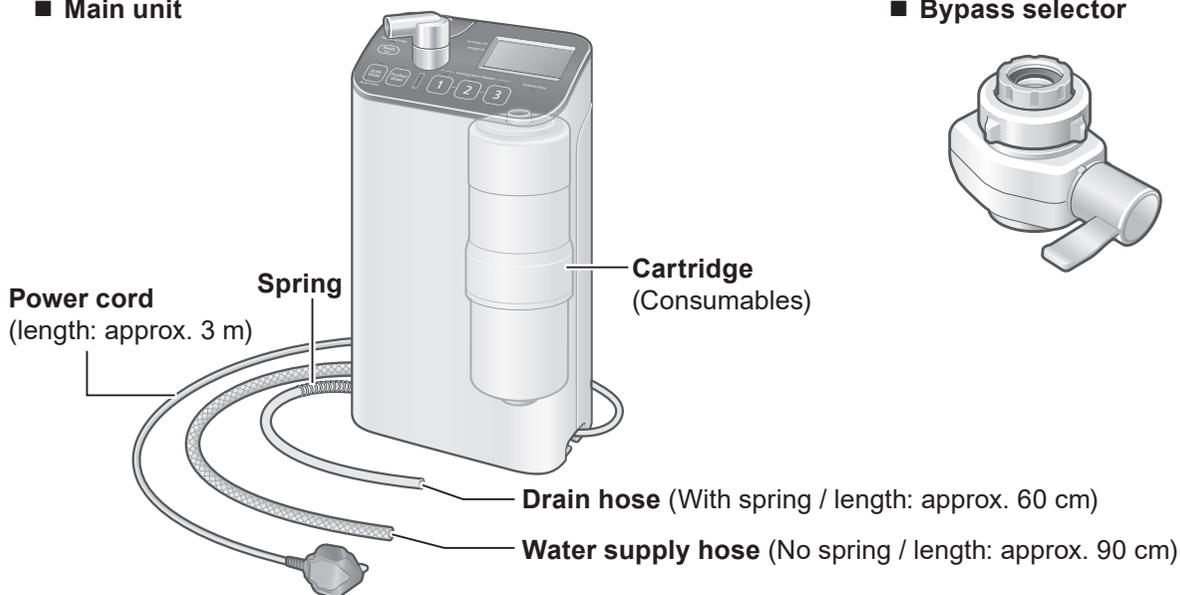


Installation 1 Check the main unit and supplied accessories

If any are missing, contact your dealer.

Items in the package

■ Main unit



Supplied Accessories

For installation

- Installation Adaptor (with 4 screws)



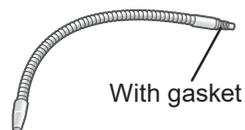
- Bushing (with gasket)



- Suction cup and mounting plate (for fixing the main unit)



- Outlet Pipe



- Suction Disc



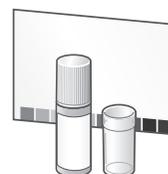
- Hose Strap



For determination of pH level

- pH test liquid (with pH chart attached)

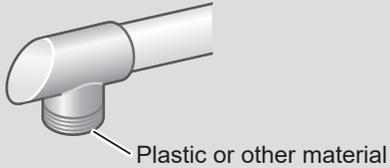
- The test liquid is used to regularly measure the pH level standard. The acidic water with pH level of 4.0 or below will show the same color. Main ingredients: Ethanol/methyl red/bromothymol blue/phenolphthalein



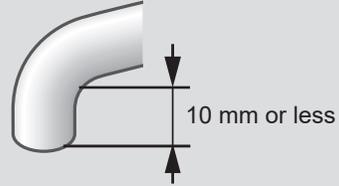
Installation 2 Check the shape of faucet

Water faucet to which the Alkaline Ionizer cannot be installed

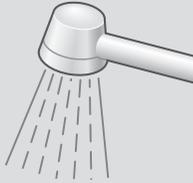
Faucet without a metal lip end



Faucet with an end of 10 mm or less



Shower nozzle



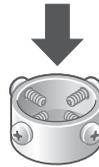
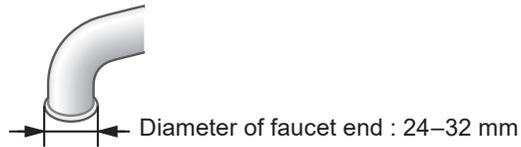
Faucet with sensor



Note

Faucet with a flaring end

- The type of faucet shown at right can be installed using the option.



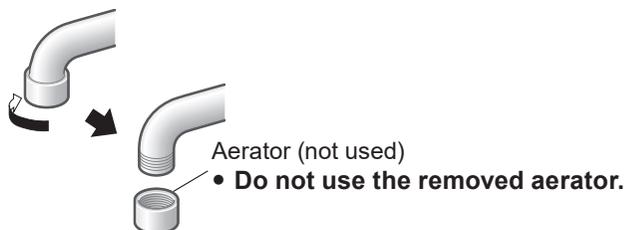
OPTION
Large-diameter Faucet Fitting
Model No.:WTK7205X7378 (P. EN42)

Installation 3 Attach the bypass selector

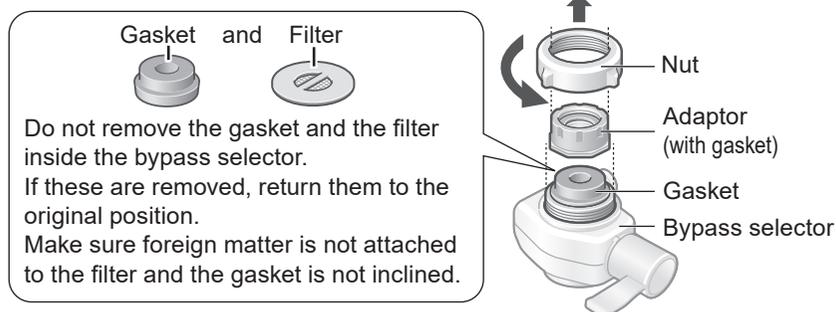
Keep all parts that are not used during installation, as they may be needed later if the unit is moved or the faucet is changed.

Outside-screwed faucet

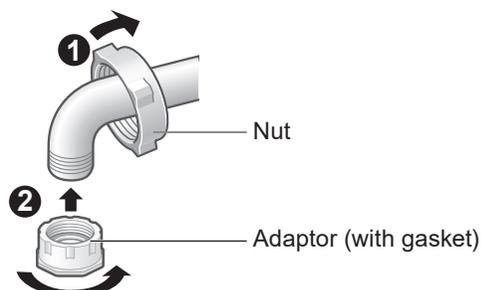
- Water faucet to which the Alkaline Ionizer can be installed without any accessory.



1 Remove the nut and adaptor.

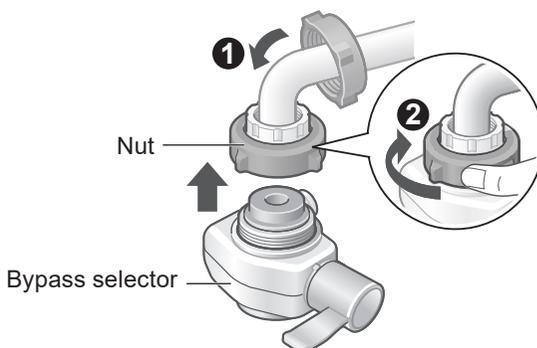


2 Attach the nut and adaptor.



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

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



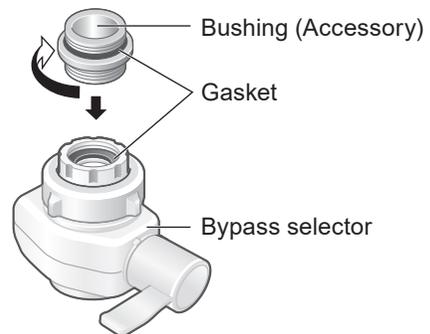
Installation 3 Attach the bypass selector (continued)

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

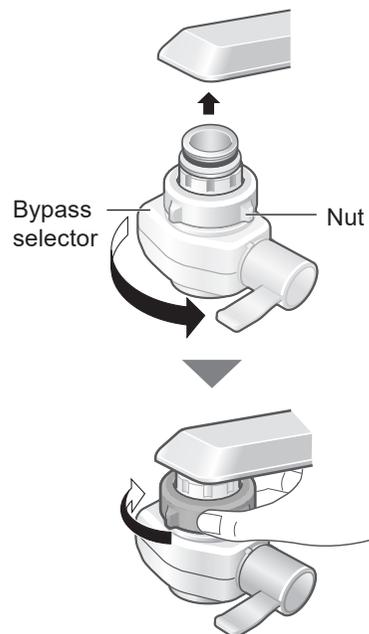
- Water faucet to which the Alkaline Ionizer can be installed with an accessory.

1 Screw in the bushing. Insert it into the bypass selector.



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

- The bypass selector should be screwed straight. Screwing it at an angle may strip the threads, resulting in water leaks.
- Do not use any tools. (Doing so may damage the nut.)
- When water leak occurs after attaching the nut and adaptor Use the gasket attached on the faucet.



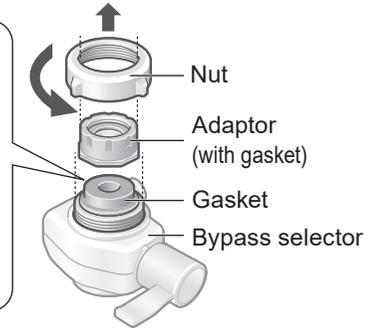
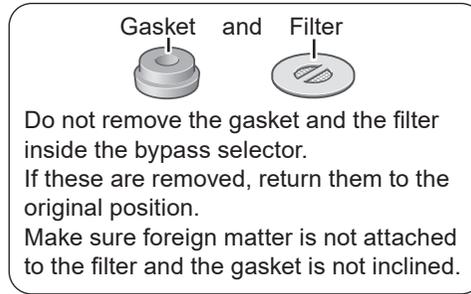
Keep all parts that are not used during installation, as they may be needed later if the unit is moved or the faucet is changed.

Faucet without an aerator

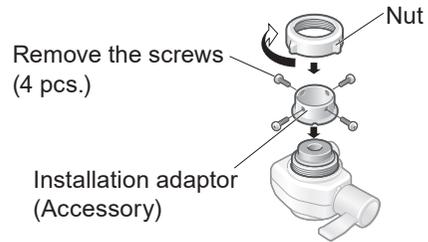
- Water faucet to which the Alkaline Ionizer can be installed with an accessory.



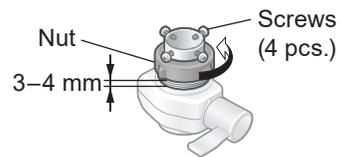
1 Remove the nut and adaptor.



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

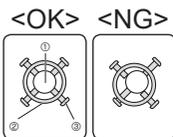


3 Tighten the 4 screws temporarily and loosen the nut to leave a 3 to 4 mm gap.

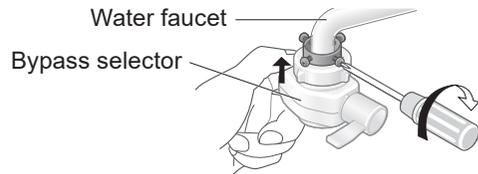


4 Push the bypass selector against the faucet and install the 4 screws as shown below.

- Top view

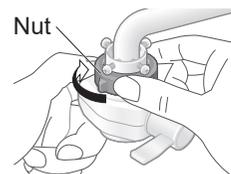


- ① Water faucet
- ② Installation adaptor
- ③ Screws



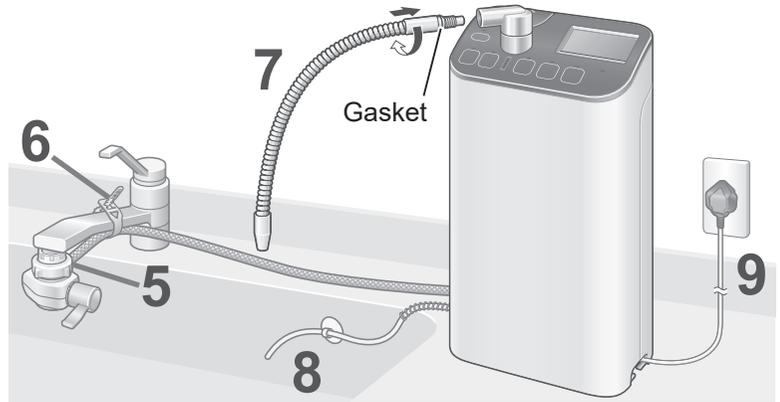
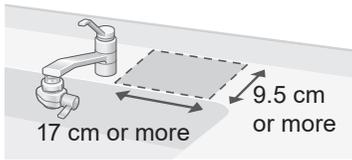
5 Tighten the nut until the bypass selector does not turn.

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



Installation 4 Install the Alkaline Ionizer

1 Choose a stable, level surface.



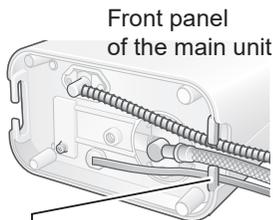
2 Extend the power cord and hose in the manner that best suits the location where the unit is installed.

- Do not flatten or bend the cord or hose.

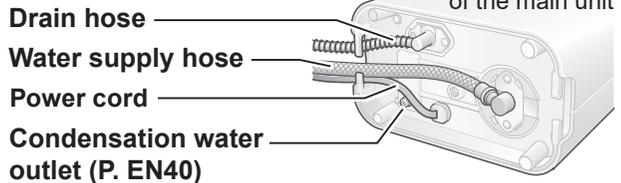
When extending the cord and hose from the right

Bottom of the unit

When extending the cord and hose from the left



Wedge the hoses into this cutout

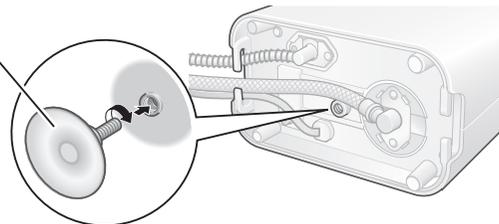


When drawing out the cord and hoses from the left side, rotate the water supply hose counterclockwise, and insert it to the cutout.

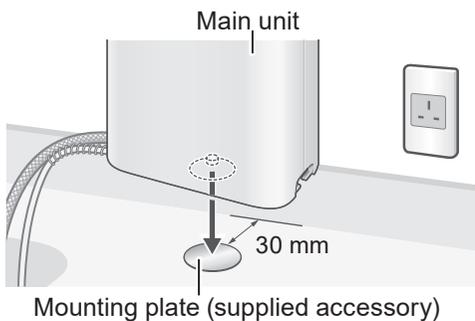
3 Attach the suction cup on the bottom surface of the main unit.

Suction cup (supplied accessory)

- Screw it in until it stops lightly.



4 Fix the main unit on the installation surface using the suction cup. (to prevent overturning)

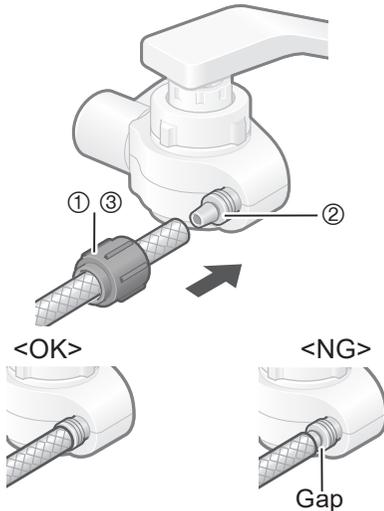


- Wipe off dirt and moisture on the installation position sufficiently.
- If the suction cup cannot be directly attached, remove the suction cup mount of the mounting plate, and attach it on the installation surface. Then, attach the suction cup on the mounting plate.

- When moving the product for maintenance, etc., incline the main unit, insert a chopstick or similar item into the end of the suction cup, and remove the suction cup.

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

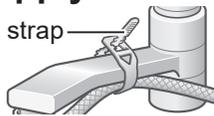
- 1 Remove the hose fastening nut from the bypass selector, and pass the hose through the nut.
- 2 Insert the water supply hose into the bypass selector as far as it will go.



- 3 Tighten up the hose fastening nut securely.
- Do not use any tools for this assembly (since the hose fastening nut may be damaged)

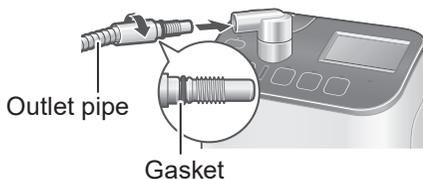
6 Using the hose strap, secure the water supply hose.

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



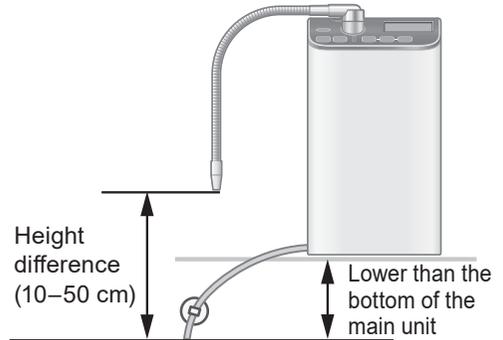
7 Screw in the outlet pipe until it is secured firmly.

- Screw it in securely until it stops.
- Ensure that the gasket does not come off or protrude from the groove, preventing it from twisting. (Water leakage may occur.)
- Do not lift the unit by taking hold of the outlet pipe. (The unit may be damaged.)



8 Secure the drain hose 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, and the height difference between the tip of main spout and the tip of the drain hose must be more than 10 cm and less than 50 cm.

[So that the appropriate pH level (ion exponent) is achieved]

9 Connect the power plug to the power outlet

(AC 220 V - 240 V).

- A buzzer beeps, and  indicator lights up.
- The Alkaline Ionizer's power consumption is 0.5 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.)
- 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)

Installation 5 Check after installation

1 Run alkaline ion water for about 3 to 4 minutes to expel the air inside the main unit.

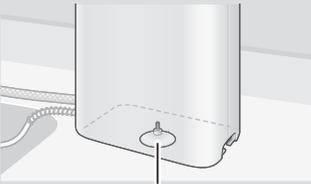
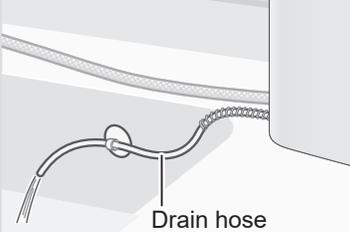
① Set the bypass selector to “”.

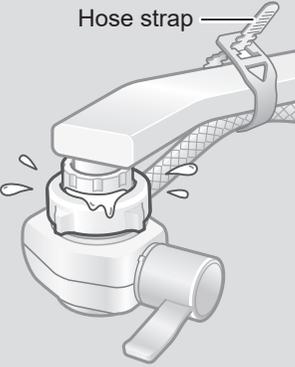
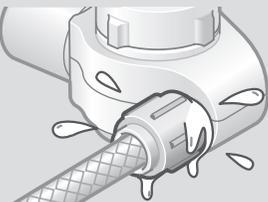
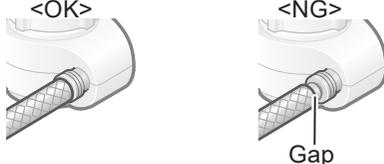
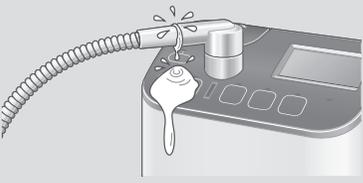
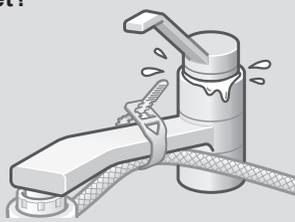
② Press .

③ Turn on the water faucet to let the water flow.

- When water is run immediately after installation, the water quality signal blinks approx. 20 seconds.
- If air is not removed, water is poorly drained off from the main spout when stopped.

2 Check the items on P. EN20 to EN21. 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
<p>Is the main unit securely fixed with the suction cup?</p>  <p>Suction cup</p>	<ul style="list-style-type: none"> ▶ ● Did you forget attaching the suction cup to the bottom surface of the main unit? → Attach the suction cup (supplied accessory) correctly. ▶ ● Is the suction cup tightly attached on the installation surface? → Wipe off dirt and moisture on the installation position sufficiently. (If the suction cup cannot be directly attached, remove the suction cup mount of the mounting plate (supplied accessory), and attach it on the installation surface. Then, attach the suction cup on the mounting plate.) 	<p>EN18</p> <p>EN18</p>
<p>Is water coming out of the main spout?</p>  <p>Main spout</p>	<ul style="list-style-type: none"> ▶ ● Is the water supply hose bent or flattened? → If it is, straighten it. 	<p>EN18–EN19</p>
<p>Is water coming out of the drain hose when alkaline ion water passes through the Alkaline Ionizer?</p>  <p>Drain hose</p>	<ul style="list-style-type: none"> ▶ ● Is the drain hose bent or flattened? → If it is, straighten it. ▶ ● 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. 	<p>EN19</p> <p>EN19</p>

Check item	Trouble inspection location and remedial action	Reference page
<p>Is there any water leakage from the joint of the bypass selector?</p> 	<ul style="list-style-type: none"> ▶ ● Has the bypass selector been installed securely on the faucet? → Check again the instructions for “Attach 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? 	<p>EN15–EN17</p> <p>EN15–EN17</p> <p>—</p> <p>EN19</p>
<p>Is there any water leakage from the joint of the water supply hose?</p> 	<ul style="list-style-type: none"> ▶ ● 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. 	<p>EN19</p>
<p>Is there any water leakage from the joint of the outlet pipe?</p> 	<ul style="list-style-type: none"> ▶ ● 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. 	<p>EN19</p> <p>EN19</p>
<p>Is water leaking from the faucet?</p> 	<ul style="list-style-type: none"> ▶ ● 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. 	<p>—</p> <p>—</p>

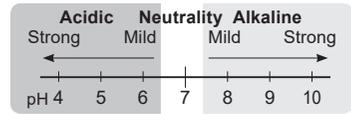
Installation 6 Measure and adjust the pH level of water

After the Alkaline Ionizer has been installed or after it has not been used for a prolonged period (generally, 1 week or more), be 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

Preparation: pH test kit (supplied accessory)

Measure the pH level with Drinking Water (Alkaline) 3 and acidic water respectively.

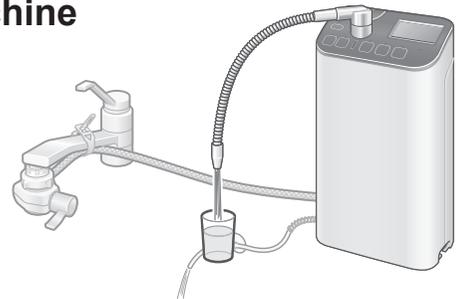
1 Put 2 drops of pH test liquid into the test tube.

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



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

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



3 Put the sample water into the test tube.

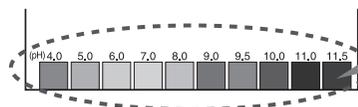
- When some of the test water is first collected in a glass and then poured into the test tube, it will be easier to align the level with the line inside the test tube.
- So long as the water inside the test tube is within 5 mm above or below the line, no problems will be posed in the pH level measurement.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



Pour the water until it comes close to 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 with reference to the pH Chart immediately.

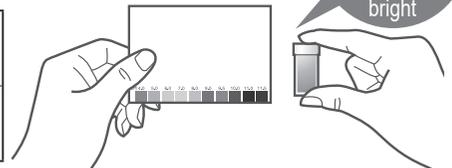


Compare pH Chart with the color of the water

at a location where the background is whitish and bright

OK in this range

Water type	Drinking Water (Alkaline) 3	Acidic water
pH level standard	9 to less than 10	5 to 6.5

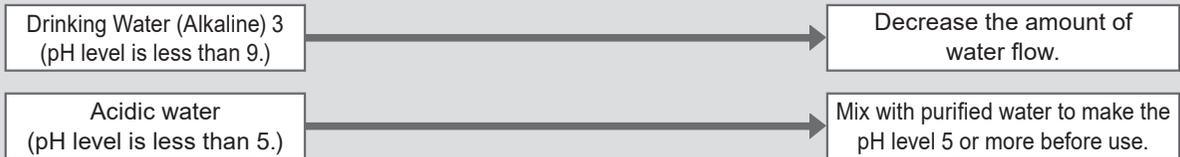


When is adjustment necessary?

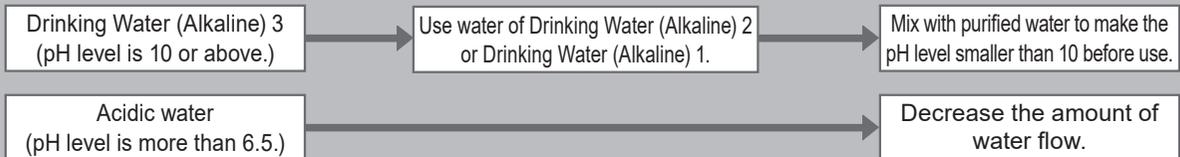
When the measurement results are beyond the range of “pH level standard”, perform adjustment. After the completion of adjustment, measure the pH level again.



The pH level is relatively low.



The pH level is relatively high.



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

■ Reference: Different properties of alkaline ion water depending on the tap water source

Tap water in your residential area	Water in hot spring area	Groundwater (water rich with carbonic acid)	Water with low hardness*	Water on the seashore 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

- When tap water is measured, colors not shown in the pH Chart may appear due to the influence of the various ingredients in water.

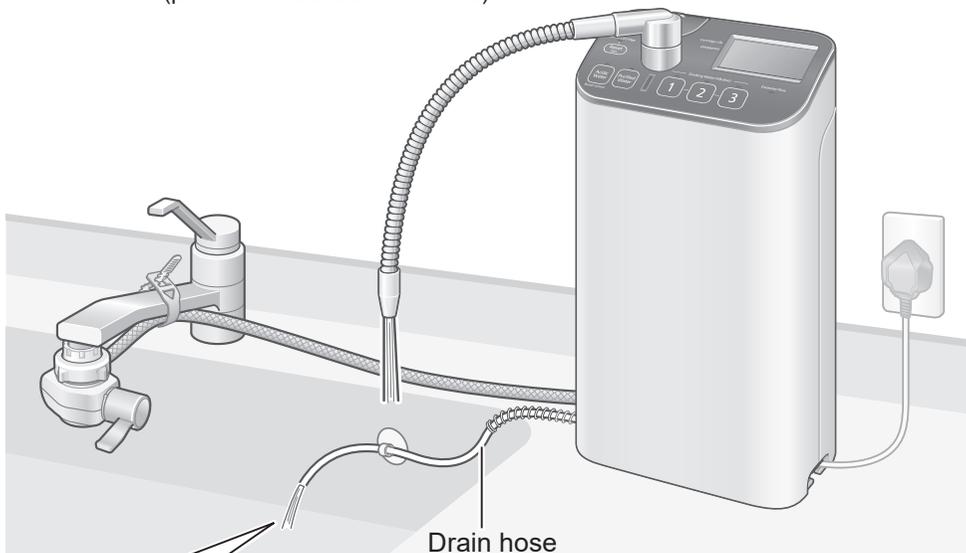
Usage of Water

	Acidic water	Purified water	Alkaline ion water		
			Drinking Water (Alkaline) 1	Drinking Water (Alkaline) 2	Drinking Water (Alkaline) 3
	 Non-drinkable	Taking medicine 	Drinking water in daily life  Approx. 0.5 to 1 liter a day		
			Start of drinking (2 weeks)	Get used to drinking (next 2 weeks)	Daily drinking
		Acidic 5.0 to 6.5	Same as tap water	Alkaline 8 to 9	8.5 to 9.5
pH (guideline)					
Display in use	6.0	---	8.5	9.0	9.5
Water outlet position	 Main spout				

- What is pH?
(P. EN22)

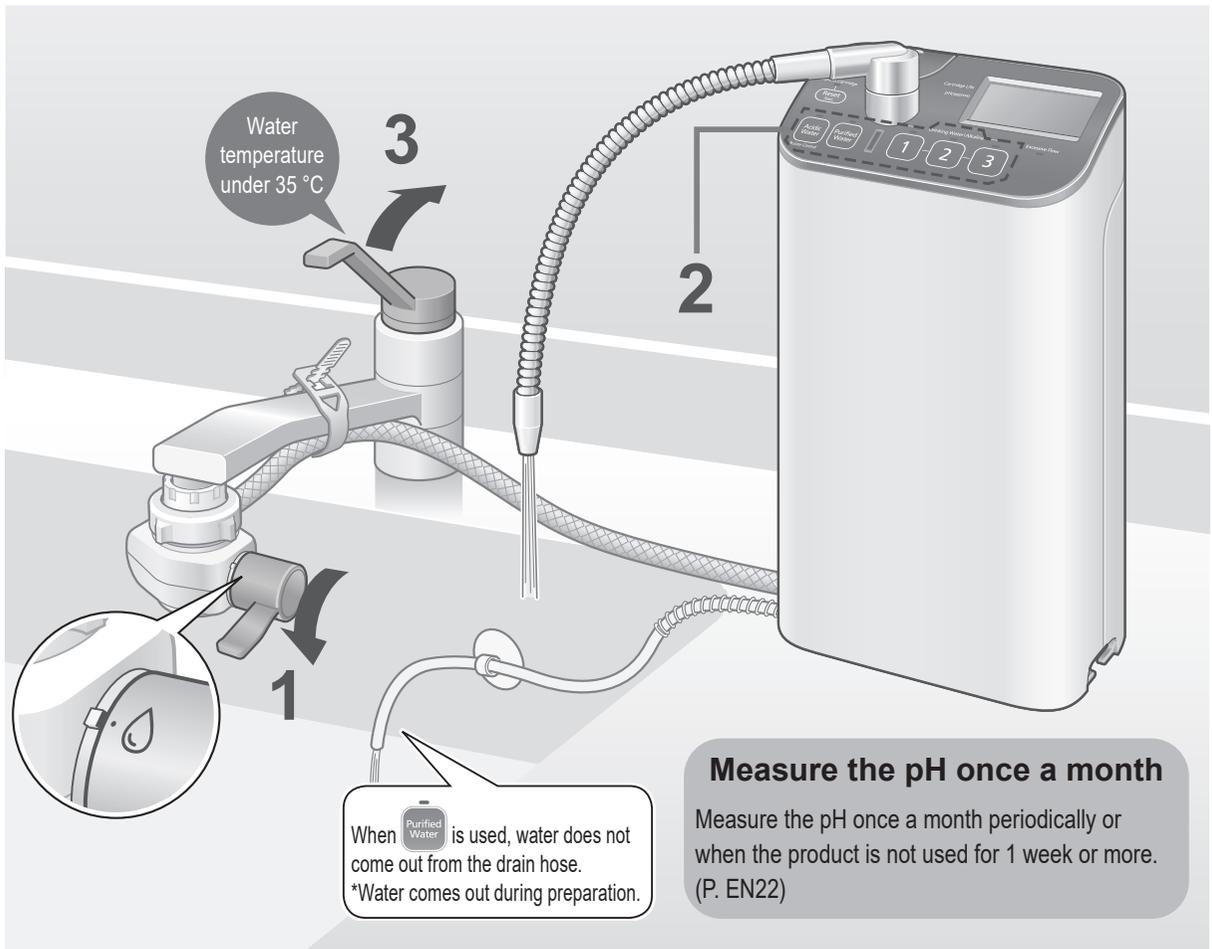
Convenient usage

Acidic water	Purified water	Alkaline ion water		
		Drinking Water (Alkaline) 1	Drinking Water (Alkaline) 2	Drinking Water (Alkaline) 3
Washing the face  <p>This mild acidic water is close to the acidity of human skin.</p>	Making baby formula 			Cooking and making tea  <p>For tea and boiled food</p>
For gargling after meal				
				
When cooking rice				
				
<ul style="list-style-type: none"> The higher the pH, the softer the rice (pH 9.0 or less recommended) 				



When the Purified mode is selected, water does not come out from the drain hose.

How to Use



Measure the pH once a month

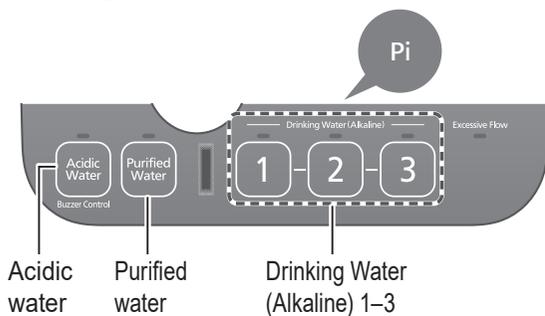
Measure the pH once a month periodically or when the product is not used for 1 week or more. (P. EN22)

1 Set the bypass selector to .

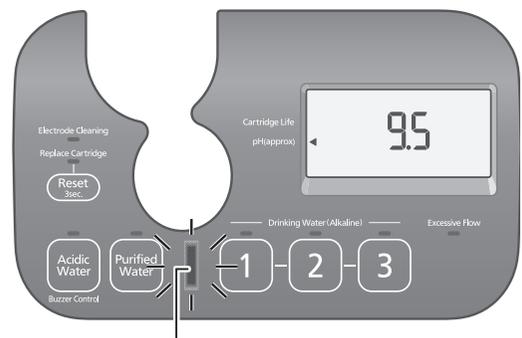
- When using tap water (P. EN10)

2 Select the type of water. (P. EN24)

- The indicator of the selected button lights up.

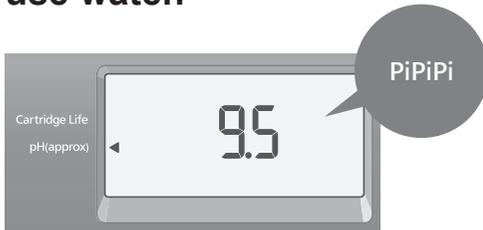


3 Open the faucet.



- The water quality signal blinks during preparation.

4 When the water quality signal lights up, use water.



- At the beginning of daily use, run water approx. 0.6 liters (approx. 18 seconds) before using. (P. EN7)
- Preparation time may become longer such as when water quality is switched during water flow, after acidic water is used, and when purified water or alkaline ion water is used after automatic electrode cleaning.
- The color of water quality signal changes according to the type of selected water.
 - Alkaline 1–3 : Blue
 - Purified water : Green
 - Acidic water : Pink

5 After use, close the faucet.



- When using the product continuously For 10 minutes after Alkaline 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 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 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 water quality signal turns off while water is flowing

When the faucet is not sufficiently opened or the amount of water flow is decreased due to change in water pressure, the water quality signal turns off. (For alkaline water and acidic water, electrolysis is stopped.)

When the water quality signal is turned off, open the faucet again, and adjust the amount of water flow.

- Do not drink water while the water quality signal is blinking.
- When a buzzer beeps for approx. 3 seconds, and  lights up (P. EN31)

■ When a buzzer beeps continuously

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

- To pause the buzzer sound: press 
- To make the setting with no buzzer (P. EN32)

■ When blinks (Only when alkaline ion 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 sufficient pH level.)

- Gradually reduce the flow from the faucet until the indicator turns off*.
 - *Alkaline 1–3 : Flow of about 4.5 L/minute
 - Acidic water : Flow of about 2.3 L/minute

Maintenance

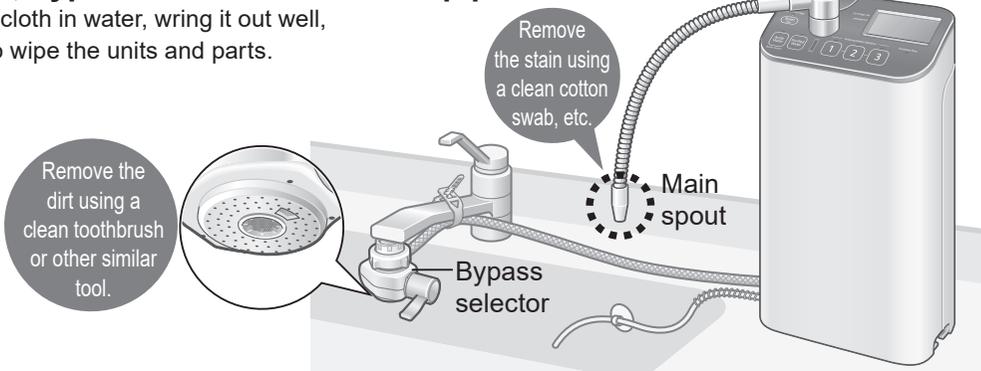
Important

- Do not use detergents, cleansers, paint thinners, benzene, alcohol or kerosene for cleaning purposes. If, for instance, a detergent is used by mistake, wipe the surface with a damp cloth immediately to remove all traces of the detergent. (Otherwise, the detergent may get mixed in with the water running through the Alkaline Ionizer, 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).

At least once a week

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.



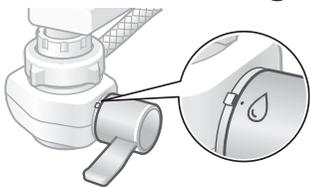
Bypass selector mounting part

Remove the bypass selector, then rinse the filter and water intake.

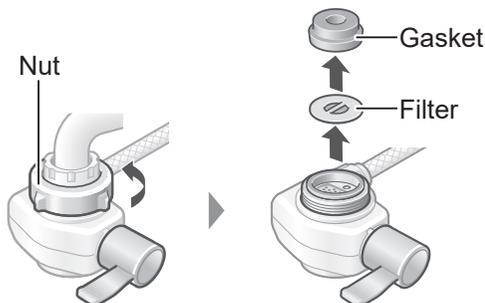
- The water flow may decrease when the filter in the bypass selector connection area becomes clogged with impurities.

How to remove

- ① Set the bypass selector to “·💧”.



- ② Loosen the nut, remove the bypass selector, and take out the gasket and filter.



Once a year

How to attach

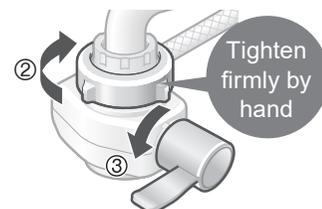
Be sure to follow this order.

- ① Reinstall



- ② Securely tighten the nut.

- ③ After mounting the bypass selector, set the lever to “·||” and allow water to flow for about 5 seconds.



Replacing the Cartridge



Replacement cartridge

Model No. : TK-AS500C-EX
(P. EN42)

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

Cartridge replacement guideline

The following shows the 3 replacement guidelines. If 1 of the following conditions is met, please replace the cartridge.

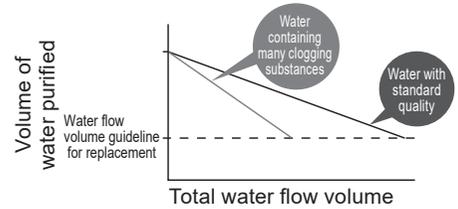
The total water flow volume reaches 12 000 L*.

**The flow of purified water or alkaline ion water is extremely low.
(The cartridge is blocked.)**

The water smells or tastes bad.

* Purification capacity (P. EN43)

- 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.



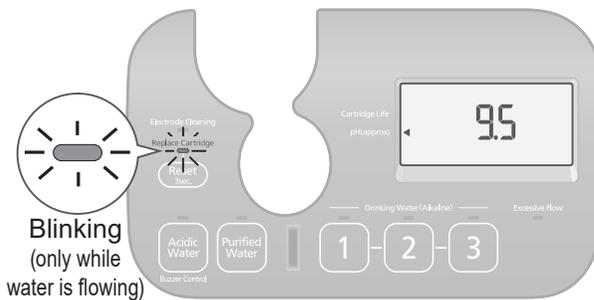
■ Check the display

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

e.g. Remaining approx. 997 L



When the cartridge replacement indicator blinks

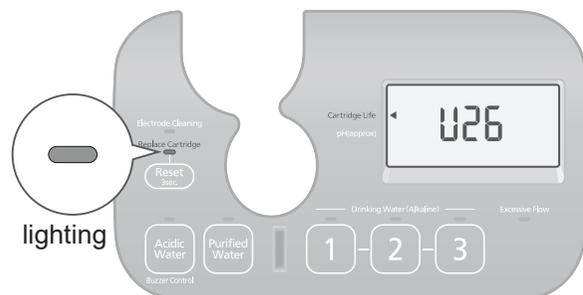


The replacement timing is approaching.

Prepare a new cartridge.

- The indicator blinks when the amount of water flow is decreased due to clogging, etc. or when the remaining amount until replacement is approx. 150 L or less.

When the cartridge replacement indicator is lit



Replace the cartridge.

- The cartridge replacement indicator lights up, and at the same time either **U25** or **U26** is displayed.
 - **U25** : The cartridge is clogged. (Check P. EN35, and replace the cartridge.)
 - **U26** : Total flow amount has exceeded 12 000 L.

While the indicator is lit, alkaline ion water and acidic water cannot be made.

Replacing the Cartridge (continued)

Replacing method

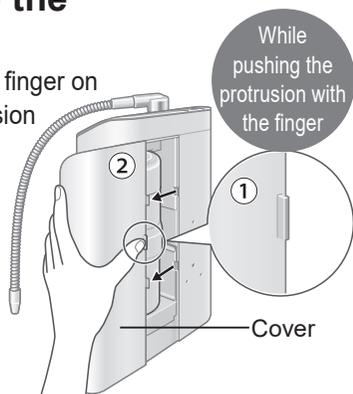
- Do not tip over the main unit, or face up the main spout.
(Water may enter the inside of the main unit, resulting in a malfunction.)
- Since the cartridge usage amount needs to be reset, do not remove the power plug when replacing the cartridge.
- Before replacing the cartridge, turn off the faucet. Do not run water through the Alkaline Ionizer with the cartridge removed.
(Doing so may 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. EN43.)



Preparation: Please turn off the faucet.

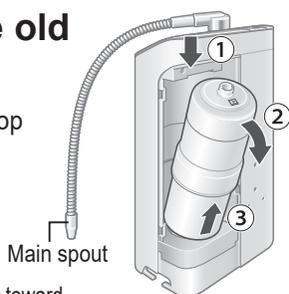
1 Remove the cover.

- ① Hook your finger on the protrusion
- ② Slide the cover while pushing the protrusion



2 Remove the old cartridge.

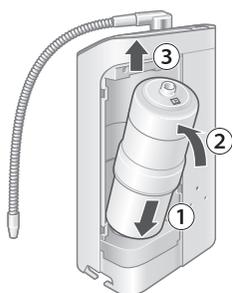
- ① Push down the top
- ② Pull toward you
- ③ Pull up and out



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

3 Install the new cartridge.

- ① Align the cartridge with the center of the bottom surface, and push it in.
- ② Insert the cartridge firmly.
- ③ Push up the cartridge until it clicks.



4 Press approx. 3 seconds.



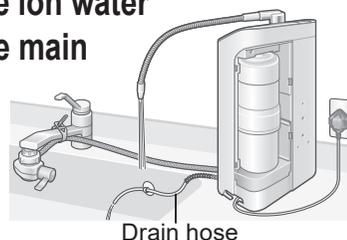
Unlit Replace Cartridge

Pi-

- Cartridge replacement guideline is reset.
- Be sure to press Reset 3sec. even when it is replaced earlier than the replacement timing.
(To display the next replacement timing correctly)

5 Open the faucet, and run alkaline ion water through the main unit.

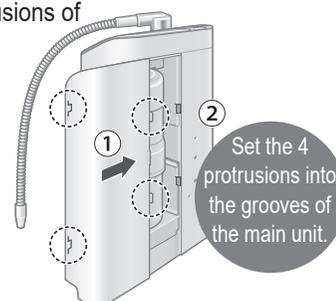
(for about 3 or 4 minutes)
While water is running through



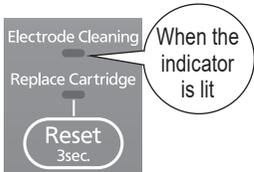
- the main unit, check that water is not leaking from the area where the cartridge was installed.
- When water is run immediately after cartridge replacement, the water quality signal blinks approx. 20 seconds.

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

- ① Place the cover along the rear of the main unit, and slide it.
- ② Set the protrusions of the cover into the grooves of the main unit.



Automatic Electrode Cleaning



When the indicator is lit

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 use of alkaline ion water

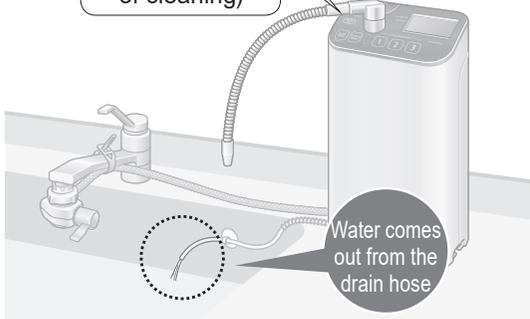
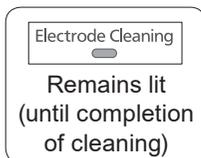
After every use of acidic water



When the faucet is turned off

Automatic Electrode Cleaning (Approx. 8 seconds)

“-----” is displayed.



- When water is stopped during preparation (while the water quality indicator is blinking), the automatic electrode cleaning is not performed.
- Do not run water until the cleaning is completed.
- Even if  turns off, 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 1 to 3 is used.

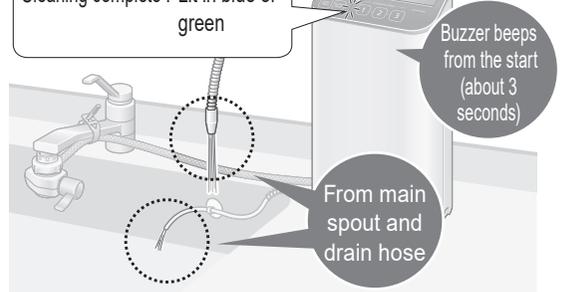
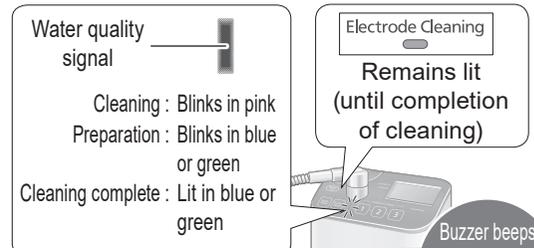
When the Alkaline Ionizer has not been used for 24 hours



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

Automatic Electrode Cleaning (Approx. 10 seconds)

“-----” is displayed.



The water quality signal blinks in pink during automatic electrode cleaning. After the cleaning is completed, 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.

Changing the Settings

How to change

Preparation: Please turn off the faucet.

Setting the Alkaline priority mode

At the time of purchase, the product is in the purified water selection mode when water is stopped after use of purified water.
Performing the following operation restores the product to the state where Alkaline 1, 2 or 3 is selected even after use of purified water.
Note that purified water flows for 10 minutes in the automatic continuation mode. (P. EN27)

 **Press approx. 3 seconds.** 

■ **To cancel the setting**

Press the button approx. 3 seconds again. 

- When the setting is canceled, purified water remains selected even if water is stopped after use of purified water. (state at the time of purchase)

Muting the Acidic buzzer

This setting mutes the buzzer sound that beeps while weak acidic water is used.

 **Press approx. 3 seconds.** 

■ **To restore the buzzer sound**

Press the button approx. 3 seconds again. 

- The buzzer can also be stopped temporarily without setting. (P. EN27)

- The above settings cannot be made during automatic electrode cleaning (P. EN31).

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 EN32 as well as the guideline until the next cartridge replacement are stored.

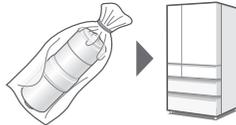
■ When the water supply is cut off

- 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 remove the air and turbid water inside the pipes. The Alkaline Ionizer may then be used again as usual. (This is to prevent the cartridge life from being significantly shortened.)

When Not in Use for Long Periods

■ When not used for approx. 1 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. 1 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 acidic water for approx. 15 seconds.

■ To use this unit again

- ① Install the cartridge (P. EN30)
- ② Connect the power plug
- ③ Run water for approx. 3 minutes, and check before using that there is no water leak or no abnormality in operation and display

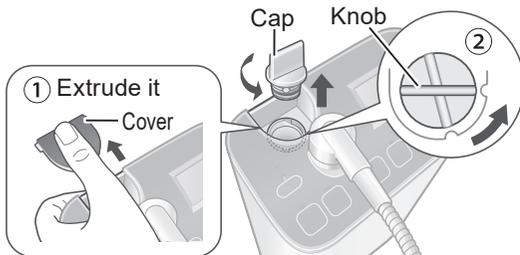
When Moving the Alkaline Ionizer

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

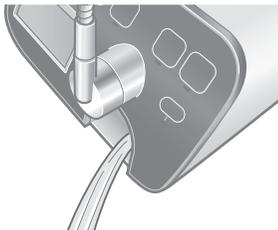
- Stand the main unit while moving. After removing the water, a small amount of water may remain, so put the main unit in a bag, etc.

1 Disconnect the power plug, and remove the cap.

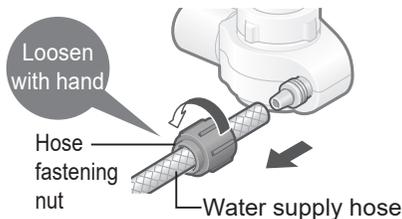
- ① Remove the cover
- ② Hold the knob, turn it, and pull it out.



2 Turn the main unit upside down, and drain off the inside water.



3 Disconnect the water supply hose.



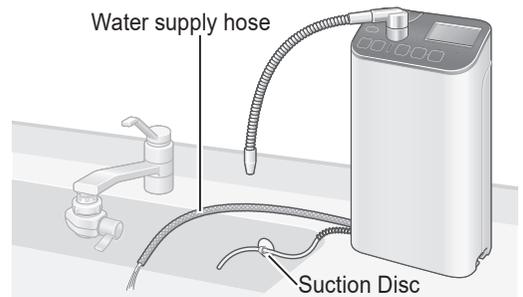
- After disconnecting the water supply hose, attach the hose fastening nut to the original position of the bypass selector (loss prevention).

4 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.)

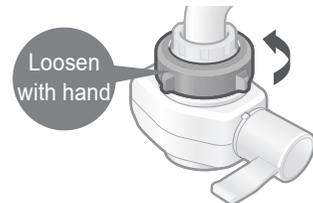


5 Put the tip of the water supply hose at a position lower than the main unit, and discharge the water remaining in the hose.



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

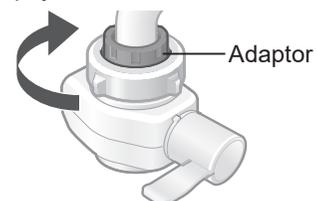
7 Loosen the nut, remove the bypass selector, and remove the water inside.



■ 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 adaptor, 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.



Indications and Solutions

Indication	Cause and solution
U21 U27	<p>Electrolysis is stopped to protect the product. (Purified water is coming out from the main spout.) This may occur depending on the quality of tap water, environment, and usage. → Stop water, wait approx. 3 minutes, and run water again.</p>
U23	<p>Electrolysis is stopped to protect the product. (Purified water is coming out from the main spout.) This may occur depending on the quality of tap water, environment, and usage. → Stop water, and wait approx. 30 minutes until the display disappears. (Depending on the quality of tap water, environment, and usage, it may take 30 minutes or more for the display to disappear.)</p>
U25	<p>The flow rate has been 1.2 L or less per minute for long periods. → Disconnect the power plug once, and connect it again. Make sure that there is no flow rate shortage due to low water pressure, or hose breakage/crush. Clean the filter if it is clogged. (P. EN28) After checking the above, if U25 is still displayed, clogging of the cartridge has caused this problem. Replace the cartridge since the cartridge has reached the replacement timing. (P. EN30) (Depending on the quality of tap water, the cartridge may get clogged earlier. (P. EN29))</p>
U26	<p>The cartridge has reached the replacement timing according to the total flow amount. Total flow amount has exceeded 12 000 L, a guideline for replacement. → Replace the cartridge. (P. EN30)</p>

- **When the indications do not disappear even if the above measures are taken**
Disconnect the power plug, and contact the dealer.

Error indication starting with “H”

- Do not disassemble the product for repair by yourself.

Indication	Cause and solution
H32 H34	<p>A product failure has occurred. → Disconnect the power plug, and contact the dealer.</p>
H51	<p>The electrolyzer has reached the time limit of usage. (The cumulative electrolysis time including cleaning time has reached approx. 850 hours.) → Request the dealer to replace the electrolyzer.</p>

Q&A

	Question	Answer
Cartridge	What is the part number of the cartridge for replacement?	TK-AS500C-EX (P. EN42) 
	Is it possible to use the cartridge exceeding the amount of 12 000 liters?	For usage, we have confirmed a removal capacity of 12 000 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 12 000 liters.) When using 15 liters of water per day, it is recommended to replace the cartridge in approx. 2 years.
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 1. (P. EN5) For the first 2 weeks, start drinking a small amount of water (1 or 2 cups) with Alkaline 1. As you get used to alkaline ion water, gradually increase to Alkaline 2 and next Alkaline 3. (If you start drinking alkaline ion water with Alkaline 3, your health may be impaired.)
	Can I take a medicine with the alkaline ion water?	Use purified water to take a medicine. You can use alkaline ion water for drinking, cooking and purposes except for 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. Consult the doctor with the following 2 points. <ul style="list-style-type: none"> • The alkaline ion water has more mineral contents (calcium, magnesium, sodium, potassium, etc.) than tap water. • The water you have been drinking has alkalinity of about pH 8 to 9. (in the case of Alkaline 1)
	I have a chronic illness. Can I drink alkaline ion water?	Consult a doctor before drinking alkaline ion water. Consult the doctor with the following 2 points. <ul style="list-style-type: none"> • The alkaline ion water has more mineral contents (calcium, magnesium, sodium, potassium, etc.) than tap water. • The water you try to drink has alkalinity of about pH 9.5.

Question	Answer
Alkaline ion water	<p>Use it within 1 day at room temperature. When alkaline ion water is produced, chlorine (sterilizer) in tap water is removed, making it easier for bacteria to proliferate.</p> <ul style="list-style-type: none"> • When storing alkaline ion water in the refrigerator, keep it in a clean sealed container, and use it within 2 days. • Also use acidic water within 2 days.
	<p>You can use the ice made from alkaline ion water in the same way as the ice made from tap water.</p> <ul style="list-style-type: none"> • 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.
	<p>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.</p>
	<p>You can use it for cooking, making rice, making tea just as you would with regular water. (P. EN25)</p>
	<p>Either reduce the pH level of the alkaline ion water or use purified water.</p> <ul style="list-style-type: none"> • The rice may be sticky or yellowish depending on the amount of water and the type of rice and rice cooker used.
	<p>Due to electrolysis, alkaline ion water contains 20 % to 30 % more of calcium ions than tap water.</p>
<p>What kind of water should infants or toddlers drink?</p>	<p>We recommend that they start drinking from purified water. According to the type of baby food, start using alkaline ion water gradually with the “Alkaline 1” setting. (Because infants have less developed stomachs and intestines than adults.)</p>
Water discharge	<p>The type of water differs depending on the water coming out from the main spout.</p> <ul style="list-style-type: none"> • It is acidic water if alkaline ion water is coming out from the main spout. • It is alkaline water if acidic water is coming out from the main spout. <p>(When purified water is coming out from the main spout, no water comes out from the drain hose.) (The characteristic of water coming out from the drain hose while the water quality signal is blinking changes depending on the quality of water used last.)</p> <p>Water coming out from the drain hose cannot be drunk.</p>
	<p>Please do not worry if the amount is little (about 1 cup). But do not drink any more.</p> <ul style="list-style-type: none"> • Consult a doctor if you have drunk a large amount of the water accidentally and feel discomfort.

When necessary

English

Q&A (continued)

Question	Answer
What does a service life of 850 hours for the electrolyzer mean?	<p>It means that the cumulative total time (including cleaning time) that enables electrolysis in the electrolyzer is 850 hours. (equivalent to approx. 7 years with use of 20 minutes a day)</p> <p>When the electrolyzer is powered-on, the electrode plate in the electrolyzer will be consumed.</p> <ul style="list-style-type: none"> • When replacement is necessary, H5 is displayed.
Can I disconnect the power plug when the product is not used?	<p>Do not disconnect the power plug even while the Alkaline Ionizer is not used.</p> <p>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.)</p>
White powder is attached on the kettle or electric thermos flask	<p>It is calcium from the water.</p> <p>Drinking the water is not a problem, but if it bothers you, clean the containers.</p> <ul style="list-style-type: none"> • If the white powder is not removed by cleaning, dissolve 50 g of citric acid in 1 liter of water, and soak the container in the solution for 2 to 3 days. Then rinse off the deposit. (Buy citric acid at a pharmacy.)
Noise occurs when a radio is placed near the product	<p>Move the radio away from the Alkaline Ionizer.</p>

Others

Before Requesting a Repair Service

First, check P. EN39 to P. EN41.

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.

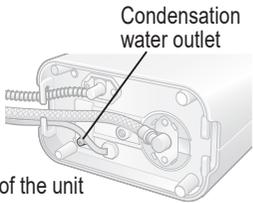
- Disconnecting the power plug once and inserting it again after approx. 5 seconds may restore the product to the normal state.

	Problem	Check point
Display and indicator	The power turned off suddenly. Nothing is displayed	<ul style="list-style-type: none"> ● To save energy, the display automatically turns off when the product is not used. ● Is the power plug disconnected?
	The water quality signal does not light up (The signal does not change from blinking to lighting.)	<ul style="list-style-type: none"> ● The water quality signal blinks approx. 20 seconds. (P. EN30) → Run water for approx. 3 to 4 minutes, and confirm the water quality signal is lit. Then use water. (To remove the air inside the cartridge.)
	When water is flowed, a buzzer beeps, and  lights up	<ul style="list-style-type: none"> ● 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 acidic water was used	<ul style="list-style-type: none"> ● In the case of acidic water, when water flow is stopped, the type of water used previously (Alkaline 1 to 3) is restored. (P. EN27)
	After using purified water, the display changes to Alkaline	<ul style="list-style-type: none"> ● Is the "Alkaline priority" mode selected? (P. EN32)
	Although water flow is not stopped, the cartridge replacement guideline is displayed	<ul style="list-style-type: none"> ● Is the amount of water flow too small? (less than approx. 1.0 liter/min) <ul style="list-style-type: none"> • The flow volume may have decreased due to change in water pressure. • Flow more water.
	Even after the cartridge is replaced, the cartridge replacement indicator does not turn off	<ul style="list-style-type: none"> ● Have you forgotten to reset the cartridge life? (P. EN30)
 blinks	<ul style="list-style-type: none"> ● Reduce the degree of opening of the faucet. (P. EN27) 	
pH measurement	The alkaline ion water does not become alkaline	<ul style="list-style-type: none"> ● 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 acidic water is neutral	<ul style="list-style-type: none"> ● If the pH level of 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 acidic water, and confirm the level is pH 10 to 11. (If this is the case, the level of acidic water is approx. pH 6.5.)

When necessary

English

Before Requesting a Repair Service (continued)

	Problem	Check point
Water leakage	Faucet and connection parts of bypass selector, water supply hose, and outlet pipe	<ul style="list-style-type: none"> ● See P. 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	<ul style="list-style-type: none"> ● 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	<ul style="list-style-type: none"> ● Has the cartridge been installed securely? (P. EN30) ● Depending on the temperature and humidity conditions, condensation may occur inside the main unit, and water may come out from the condensation water outlet. (This is not a malfunction) → Wipe off the water. <div style="text-align: right;">  <p>Condensation water outlet</p> <p>Bottom of the unit</p> </div>
Main spout	Water drips or trickles out of the main spout even when the water is stopped	<ul style="list-style-type: none"> ● This is not a malfunction. (This is water remaining in the pipe.)
	No water or a small amount of water is coming out	<ul style="list-style-type: none"> ● 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? <p>If the problem is still not solved after all of the above are checked, the cartridge may be clogged. Replace the cartridge. (P. EN30)</p>
	Although water is coming out, the water quality signal does not light up	<ul style="list-style-type: none"> ● Is the water supply hose bent or flattened? <p>If the problem is still not solved after all of the above are checked, the cartridge may be clogged. Replace the cartridge. (P. EN30)</p>
	The amount of water coming out has decreased after the cartridge is replaced	<ul style="list-style-type: none"> ● Did you run water for approx. 3 to 4 minutes after replacement? (P. EN30) (It is necessary to remove the air inside the cartridge)
	The water coming out from the main spout is warm	<ul style="list-style-type: none"> ● At the beginning 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. Run water before using.)

	Problem	Check point
Drain hose	Water is drained even after the faucet is closed	<ul style="list-style-type: none"> Water inside the main unit is drained every after use. (P. EN27, EN31)
	Water is not drained while alkaline ion water or acidic water is used	<ul style="list-style-type: none"> Is the drain hose bent or flattened? <ul style="list-style-type: none"> Running water continuously may cause malfunction. Also the water cannot be electrolyzed correctly.
Sound and buzzer	A buzzer does not beep while acidic water is used	<ul style="list-style-type: none"> Has the buzzer been muted? (P. EN32)
Odor, taste, turbidness, and change in color	The water produced by the Alkaline Ionizer has an odor or unpleasant taste or is turbid	<ul style="list-style-type: none"> 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 Water button, and run acidic water for approx. 15 seconds.
	The smell at the beginning of use of water concerns me	<ul style="list-style-type: none"> Since water is accumulated inside the main unit for 10 minutes after Alkaline 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 acidic water has an odor	<ul style="list-style-type: none"> Electrolysis causes the chlorine ions in the water to collect in acidic water, forming hypochlorous acid. → There is no problem if you use it as is.
	White floating matter is mixed with the alkaline ion water	<ul style="list-style-type: none"> 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 is no problem if you use it as is.) <ul style="list-style-type: none"> This foam tends to be much generated after installation or cartridge replacement. In the case of acidic water, oxygen foam is generated.
	Alkaline ion water or purified water looks shiny	<ul style="list-style-type: none"> This occurs when components (mainly minerals) dissolved in the water float. → There is no problem if you use it as is. But if it bothers you, use alkaline ion water at a lower pH level.

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-AS500C-EX

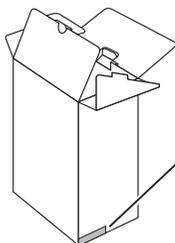
For use with large faucet

Large-diameter Faucet Fitting (inner 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 4 0 2 0 1

Day : two digits

Month : two digits

Year : last two digits of the year

Specifications

Rated voltage, frequency, input current		220-240 V ~ , 50 Hz, 0.7 A	
Rated power consumption		Approx. 64 W (approx. 0.5 W during standby)	
Main unit	Dimensions	Approx. 168 (W) × 95 (D) × 333 (H) mm	
	Weight	Approx. 2.4 kg (approx. 2.8 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)	2.0 L/min. [at 100 kPa water pressure]	
	Electrolysis capability selection	Alkaline: 3 levels; Acidic: 1 level	
	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		2.4 L/min. [at 100 kPa water pressure]	
Filtration flow volume		2.4 L/min. [at 100 kPa water pressure]	(Note 2)
Cartridge Installed In the unit		TK-AS500C-EX	
Purification capacity	Free residual chlorine	12 000 L	(Note 2,3)
	Turbidity	12 000 L	(Note 2,4)
	Chloroform	12 000 L	(Note 2,5)
	Total trihalomethane	12 000 L	(Note 2,5)
	Bromodichloromethane	12 000 L	(Note 2,5)
	Dibromochloromethane	12 000 L	(Note 2,5)
	Bromoform	12 000 L	(Note 2,5)
	Tetrachloroethylene	12 000 L	(Note 2,5)
	Trichloroethylene	12 000 L	(Note 2,5)
	CAT (pesticide)	12 000 L	(Note 2,3)
	2-MIB (mold smell)	12 000 L	(Note 2,3)
	Soluble lead	12 000 L	(Note 2,3)
	1,2-DCE	12 000 L	(Note 2,5)
	Benzene	12 000 L	(Note 2,5)
Geosmin (mold smell)	12 000 L	(Note 2,3)	
Phenols	12 000 L	(Note 2,3)	
PFOS and PFOA	12 000 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. 2 years	(Note 8)
Filter material		Non-woven fabric, activated carbon, ceramic, 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 and acidic water is equivalent to about 83 % 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.

Inspection	Check the Alkaline Ionizer you have been using for years.	
	<p>Is any of the following symptoms applicable?</p> <ul style="list-style-type: none"> • The indicator does not light up even though the power plug is connected. • An error code (U21 to U27) appears, and it re-appears even after taking remedial action. • An error code (H32 to H51) appears. • Some other trouble or failure occurs. 	<p>Stop using the product immediately.</p> <p>To avoid an accident, please disconnect the power plug from the power outlet, and contact a dealer to handle the issue.</p>

愛心檢查	請對長年累月使用的鹼性離子整水器進行檢查	
	<p>是否有這樣的現象？</p> <ul style="list-style-type: none"> • 就算已將電源插頭插入・顯示燈不點亮 • 出現異常顯示 (U21 ~ U27) ・即使處理異常顯示依舊出現 • 出現異常顯示 (H32 ~ H51) • 出現其他異常現象或故障 	<p>停止使用</p> <p>為避免發生事故・請從插座拔下電源插頭・並務必委託經銷商處理。</p>

