

Panasonic®

Instruction Manual 使用說明書

Alkaline Ionizer **Household Use**

電解水機 **家庭用**

Model No. **TK-AS66-ZEX**



English

中文 (繁體)

Thank you very much for purchasing our Alkaline Ionizer.
感謝您選購 Panasonic 電解水機。

- Please read through this manual carefully before using the product to ensure proper operation.
Be absolutely sure to read the “Safety Precautions” (P. EN3 ~ EN6) before use to ensure that you will use the product safely. After reading the manual, keep it in a safe place along with the warranty in case you need to refer to it later.
- 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.
- 使用前請詳閱本說明書，詳閱說明書後再正確使用。特別是「安全注意事項」(TC3 ~ TC6 頁)，請務必在使用前詳細閱讀，以便安全操作。閱讀後請妥善保管並與保證書放在一起，以備不時之需。
- 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 (2017.2.1))
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 (2017年2月1日))

The Alkaline Ionizer

eliminates turbidity and odors, and makes your water tasty.

- The Alkaline Ionizer produces alkaline ion water and weak acidic water by electrolysis.
- It eliminates the following substances so that the water you drink will be tasty.

13 substances specified by JIS standards

Free residual chlorine, turbidity, total trihalomethane, chloroform, bromodichloromethane, dibromochloromethane, bromoform, tetrachloroethylene, trichloroethylene, 1,1,1-trichloroethane, CAT, 2-MIB (mold smell), soluble lead

Japan Water Purifier Association voluntary class 4 substances

Iron (particulate form), Aluminum (neutral), Geosmin (mold smell), Phenols

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Safety Precautions

Please make sure to follow these instructions

In order to prevent accidents or injuries to the user, other people, and damage to property, please follow the instructions below.

■ The following charts indicate the degree of damage caused by wrong operation.




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

Power cord and power plug

-  ● **Do not damage the power cord or power plug.**
(It may cause a fire or electric shock due to short circuits, faulty insulation, deterioration or other.)
 - 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 it
 - Bundling it
 - Pinching it
 - Sandwiching it. etc.
 - 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 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 connect or disconnect the power plug with wet hands.**
(It may cause an electric shock.)
-  ● **Use 220 V - 240 V AC voltage.**
- **Insert the power plug firmly.**
(It may cause smoking, a fire or electric shock.)
 - Do not use a damaged plug or loose power outlet.
- **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 an authorized dealer for a check or repair.
- **Discontinue using the appliance immediately and unplug when abnormality or breaking down occurs.**
(It may cause smoking, a fire or electric shock.)
<e.g. for abnormality or breaking down>
 - The lamp indicator is abnormal. (P. EN21)
 - Abnormal noise generated during operation
 - The main unit becomes abnormally hot or deformed.
 - Please contact an authorized dealer for a check or repair.

Safety Precautions (continued)

WARNING

Disassembly prohibited



- **Do not disassemble, repair or remodel the Alkaline Ionizer.** (Doing so can lead to a fire and/or electric shocks.)
- Please contact an authorized dealer for a check or repair.

Water supply



- **Use only water (such as tap water) which has been approved for consumption.** (Consuming non-approved water may cause health problems as this Alkaline Ionizer does not have sterilization capabilities and cannot eliminate toxic substances other than those it can remove (P. EN2).

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.**

(Otherwise it may cause health problems.)

- 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

- **People in the following situations should consult a doctor before applying weak acidic water to their skin.**

(Otherwise it may cause health problems.)



- People with sensitive skin
- People susceptible to allergic dermatitis

- **First-time users should consume small quantities (1 to 2 cupfuls) starting at the “Alkaline Level 1” setting for about two weeks, and then start using the “Alkaline Level 2” or “Alkaline Level 3” settings when their body has become accustomed to alkaline ion water.**


(Drinking too high a level or too much (3 or more cupfuls) alkaline ion water at the start may cause health problems.)

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, acidic water spout or drain outlet.**
(Doing so may cause water leaks or malfunctions.)
- **Do not use the Alkaline Ionizer if the outlet pipe is loose.**
(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 hot water supply system which is not equipped with a directional control check valve (for preventing the backflow of the water).**
(Doing so may lead to malfunction in the hot water supply system.)
- **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.)
- **When mounting the main unit on a wall for use, be absolutely sure to ask your dealer or a contractor to do the installation work.**
(If you try to do the work yourself, the main unit may fall off, possibly causing an accident.)
- **The location where the main unit is to be installed must be able to support a weight of over 6 kg.**
If the installation location does not have enough strength to support the main unit, the Alkaline Ionizer may fall, resulting in an accident and kitchen damage.

Maintenance

-  ● **Do not splash water or wash the main unit.**
(It may cause an electrical leakage, electric shock or malfunction.)


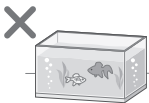
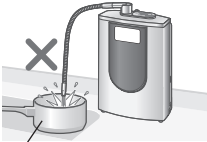
Accidental ingestion


-  ● **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 and children to play with packaging material.**
(It may cause suffocation.)

Safety Precautions (continued)

CAUTION

Non-consumable alkaline ion water, applications


-  ● **Do not drink the following kinds of water:** (Doing so may cause health problems.)
 - Weak acidic or acidic water
 - Water which comes out of the drain outlet
 - Water which comes out of the main spout in the "Preparation time" status or during the automatic cleaning of the electrodes.
 - Water which contains pH test liquid.
- **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 Level 3" (Drinking water in daily life) is recommended. Keep the general amount of water consumed daily at around 0.5 liter to 1 liter.
- **Do not take medicine with alkaline ion water.** (Doing so may cause health problems.)
- **Do not use alkaline ion water, acidic water, or purified water for the care of fish or other pets.** (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

-  ● **When starting to use the Alkaline Ionizer, drain out the water which has collected inside.** (Otherwise it may cause health problems.)


When starting use every day	Run about 0.6 liter (about 15 seconds) of water through the Alkaline Ionizer.
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When the Alkaline Ionizer has not been used for 2 or more days	Run about 8 liters (about 3 minutes) of water through the Alkaline Ionizer.
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Storing alkaline ion water and purified water

-  ● **Use alkaline ion water or purified water immediately after it is produced, or 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.)



If feeling unwell

-  ● **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.** (It may cause a burn.)

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 reagent or water containing it has been accidentally swallowed, drink copious amounts of water; if it has made contact with your eyes, rinse thoroughly with clean water and, in either case, consult a doctor.
 - Place the cap on the test liquid container, and keep it out of the reach of infants and toddlers.

Operating Precautions

Water supply

- **Do not run the following types of water through the Alkaline Ionizer.**
(Doing so may shorten the service life of the cartridge.)
 - Water which is very turbid
 - Water containing a great deal of red rust
- **Do not run well water containing sea water or other salt content (from wells near coastal area) through the Alkaline Ionizer.**
(Doing so may cause malfunction.)
- **When using the Alkaline Ionizer in areas where the water is very hard***
 - Once a day, run weak acidic water through the Alkaline Ionizer for about a minute before use (otherwise calcium will build up on the main spout and along the water lines, hindering the passage of the water).

*: In areas where the water is very hard, soap will not lather easily and white deposits (calcium) will build up in kettles and pans.
- **Depending on the region and water quality, it may not be possible to acquire the designated pH level.**

Usage

- **Do not place this product upside down.**
(Doing so may cause that lead to malfunction.)
 - **Do not connect the Alkaline Ionizer to a hot water-only faucet.**
(Doing so may cause 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 |
|-----------------------------|-------------------|
| Purified | Under 35 °C |
| Unpurified/Shower | Under 80 °C |
- **Do not lift the main unit by taking hold of the outlet pipe, or forcefully move the main unit.**
(Doing so may cause damage.)

- **Do not continuously produce alkaline ion water or weak acidic water beyond the time spans given in the table below.**
 - If water is produced for longer periods than the ones shown below, the "U27" error code (P. EN44) will appear on the LCD display, and electrolysis will be suspended.

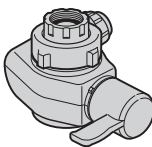


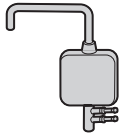





Alkaline 4 (Strongly Alkaline)	Approx. 10 minutes
Stronger for Alkaline 3	Approx. 10 minutes
Standard or Milder for Alkaline 3	Approx. 30 minutes
Alkaline 2	Approx. 30 minutes
Alkaline 1	Approx. 30 minutes
Weak Acidic	Approx. 10 minutes

Installation location

- **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 case.)
 - **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)
(Doing so may cause insufficient draining of cleaning water through the pipes.)
 - **Near radios**
(Doing so may generate static in the radio.)
- **Do not use a hose or other commercially available product to extend the water outlet.**
(Doing so may cause malfunction.)

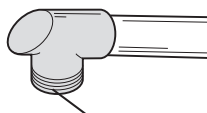
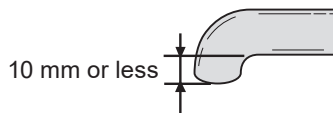


Supplied Accessories

Before using this unit, check that the following supplied accessories are accounted for. If any are missing, contact your dealer.

For Use in Attaching the Bypass Selector	For Use in Installing the Main Unit	Consumables
 <p>Bypass Selector</p>  <p>Installation Adaptor (with 4 screws)</p>  <p>Bushing (with gasket)</p>	 <p>Acidic Water Stand (with drain outlet and suction disc)</p>  <p>Outlet Pipe With gasket</p>  <p>Mounting Disc</p>  <p>Hose Strap</p>  <p>Suction Disc (for acidic water and drain hoses)</p>	 <p>pH Test Kit</p>

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**
- 
- Plastic or other material
- 
- 10 mm or less
- 
- 



Note

Faucet with a flaring end

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

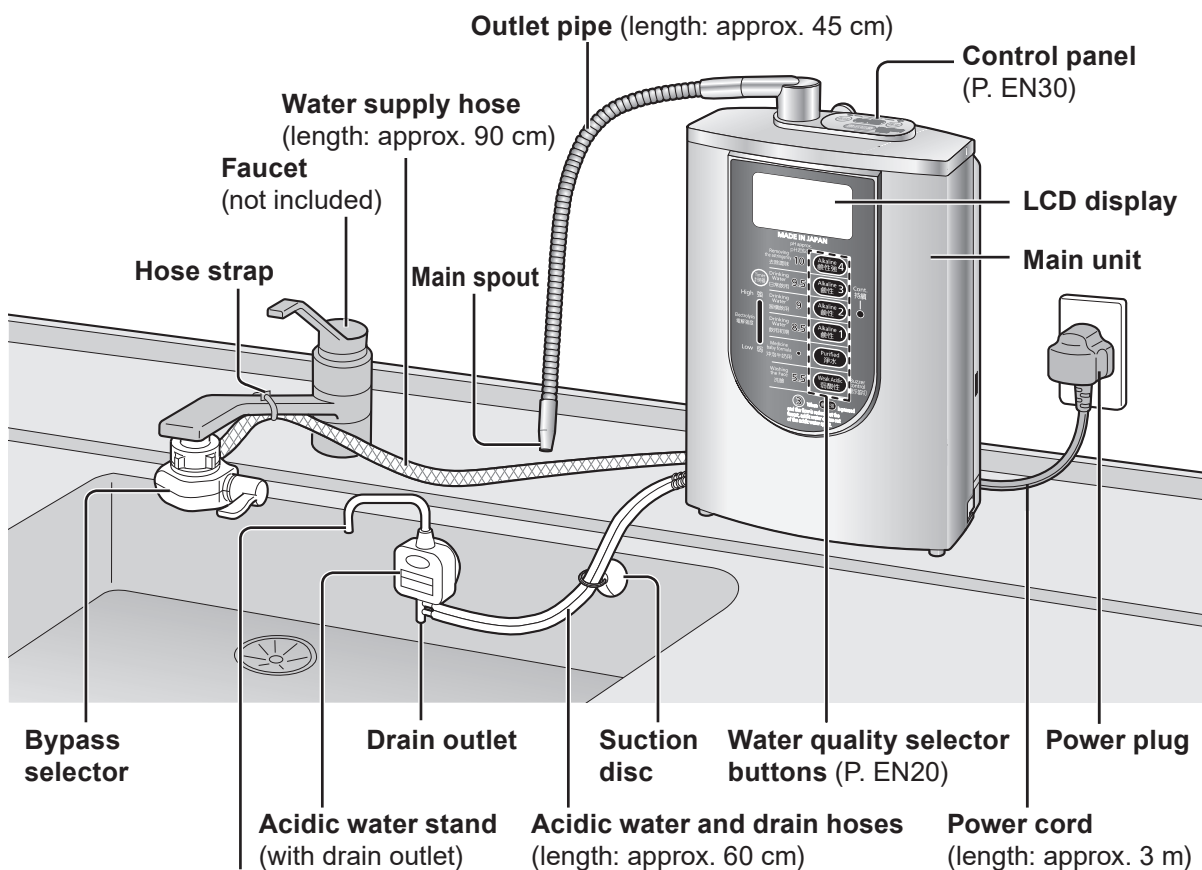


Diameter of faucet end:
24 ~ 32 mm



OPTION
Large-diameter Faucet Fitting
Model No.: P-06JRC (P. EN49)

Names of the Parts and Steps to Take Before Operation



Acidic water spout

- Acidic water will come out while the Alkaline Ionizer is producing alkaline ion water. (Use it to wash dishes, vegetables, etc.)

Steps to take before operation

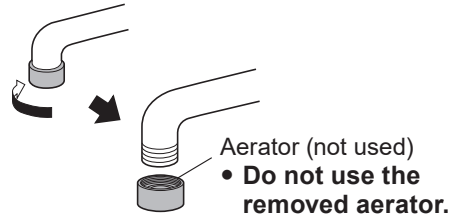
1	Checking the faucet (P. EN8)	5	Measuring the pH level (ion concentration) (P. EN17)
2	Attaching the bypass selector (P. EN10 ~ EN12)	6	Selecting the language of the LCD displays (P. EN19)
3	Installing the Alkaline Ionizer and plug in. (P. EN13 ~ EN15)	▼	
4	Check after installation (P. EN16) Run alkaline ion water through the Alkaline Ionizer for about 3 to 4 minutes to expel the air inside the main unit. • "Preparation time" blinks for about 20 seconds on the LCD display.	Operation (P. EN20 ~ EN22)	

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.

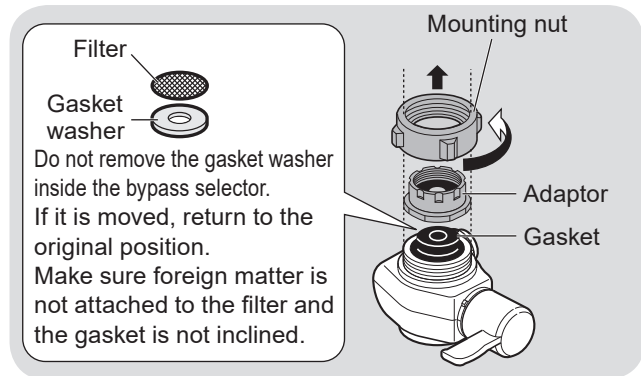
Outside-screwed faucet

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

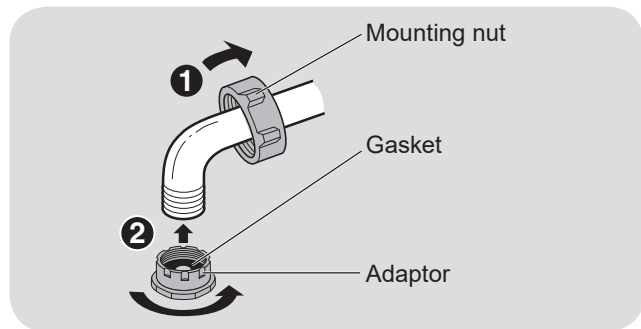


1 Remove the mounting nut and adaptor.

- When the filter or gasket washer (made of metal) drops off, please return to the original position (P. EN34).
- Make sure any foreign matter is not attached on the end of the faucet and gasket inside of the bypass selector.

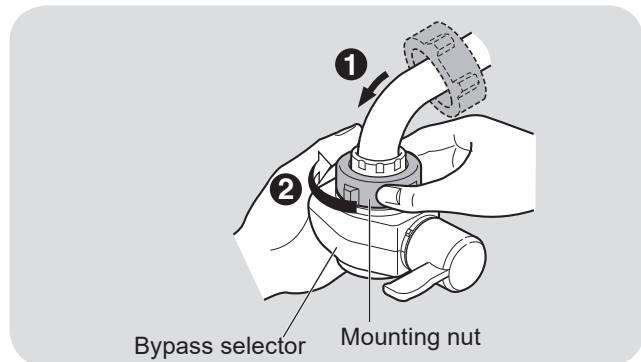


2 Attach the mounting nut and adaptor.



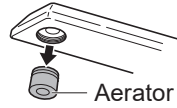
3 Attach the bypass selector and tighten the mounting unit until the bypass selector does not turn.

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



Inside-screwed faucet

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

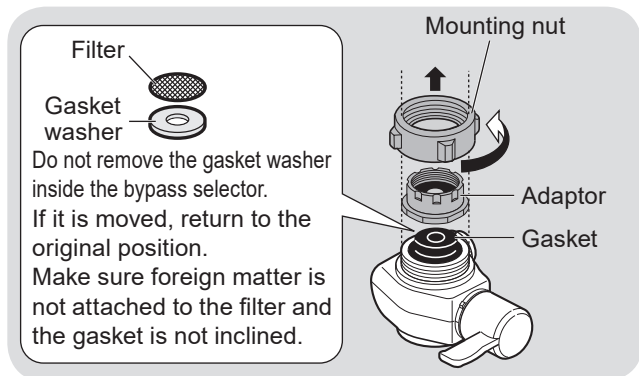


Aerator (not used)

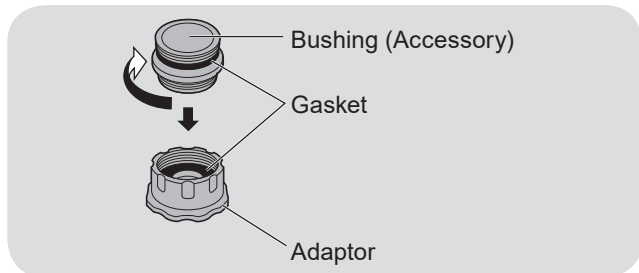
- Do not use the removed aerator.

1 Remove the mounting nut and adaptor.

- When the filter or gasket washer (made of metal) drops off, please return to the original position (P. EN34).
- Make sure any foreign matter is not attached on the end of the faucet and gasket inside of the bypass selector.

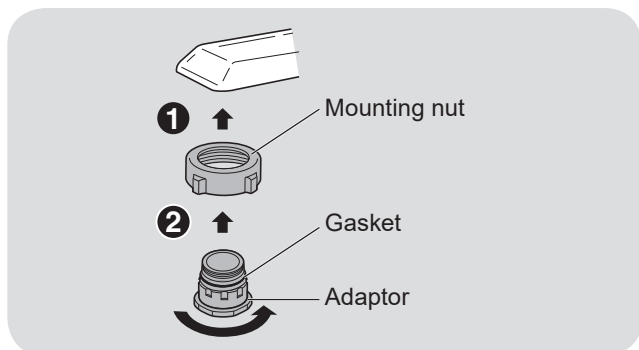


2 Screw in the bushing. Insert into the adaptor.



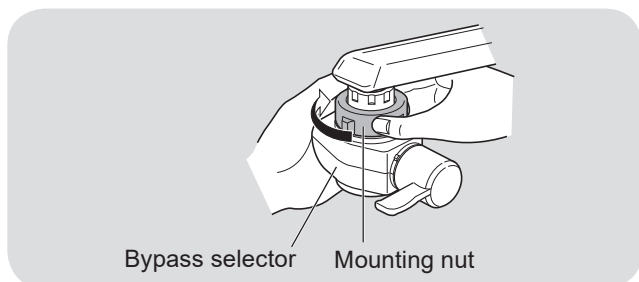
3 Attach the mounting nut and adaptor.

- 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 mounting unit until the bypass selector does not turn.

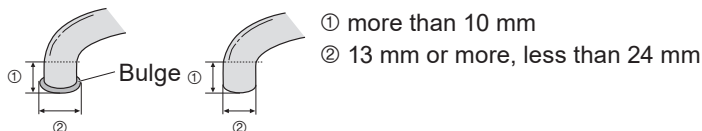
- Do not use any tools. (This may damage the mounting nut.)
- Make sure the bypass selector is not inclined.



Attaching the Bypass Selector (continued)

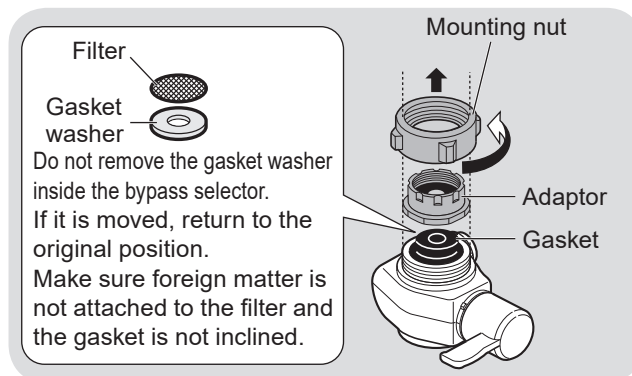
Faucet without an aerator

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

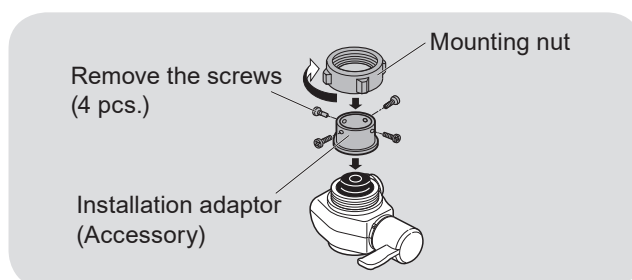


1 Remove the mounting nut and adaptor.

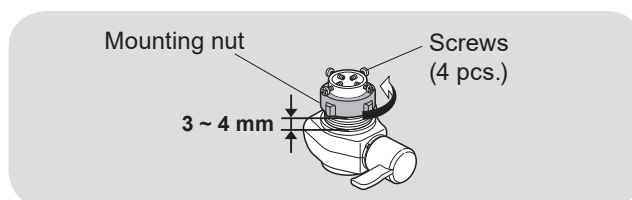
- When the filter or gasket washer (made of metal) drops off, please return to the original position (P. EN34).
- Make sure any foreign matter is not attached on the end of the faucet and gasket inside of the bypass selector.



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

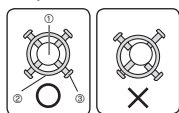


3 Tighten the 4 screws temporarily and loosen the mounting nut to leave a 3 ~ 4 mm gap.

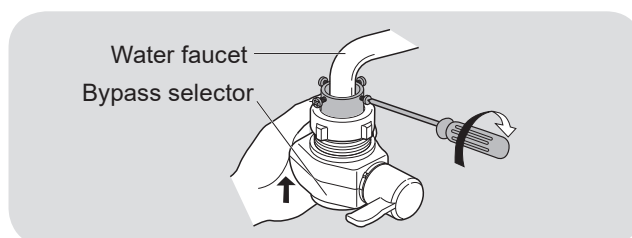


4 Push the bypass selector against the faucet and install the 4 screws as shown below.

- Top view

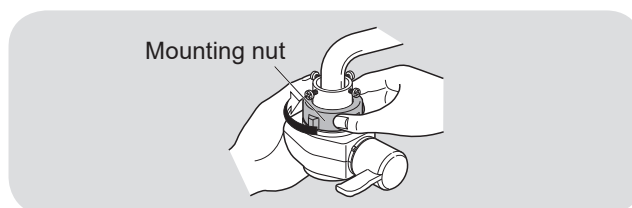


- ① Water faucet
- ② Installation adaptor
- ③ Screws



5 Tighten the mounting unit until the bypass selector does not turn.

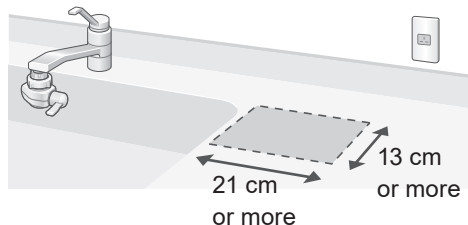
- Do not use any tools. (This may damage the mounting nut.)
- Make sure the bypass selector is not inclined.



Installing the Alkaline Ionizer

Preparations

1 Choose a stable, level surface.

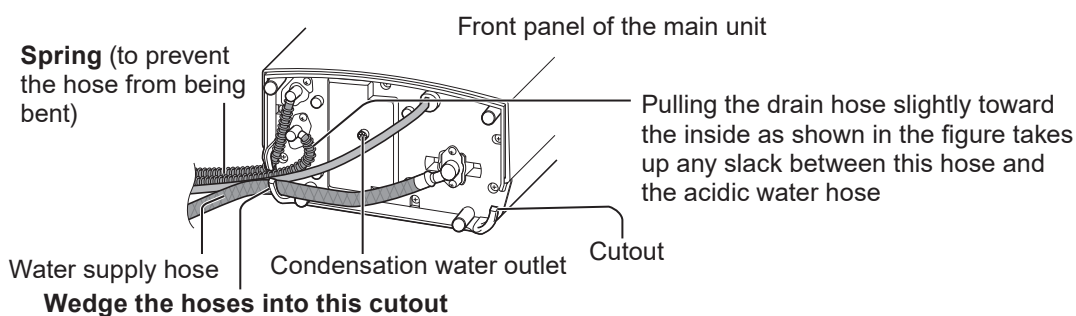


2 Extend the power cord and hose in the manner that best suits the location where the unit is installed.

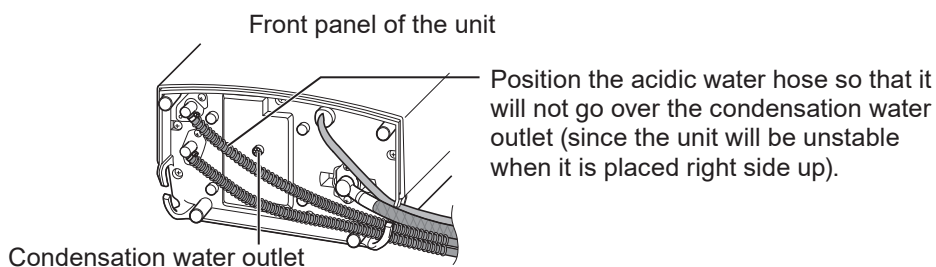
- Do not flatten or bend the cord or hose.

Bottom of the unit

When extending the cord and hose from the left



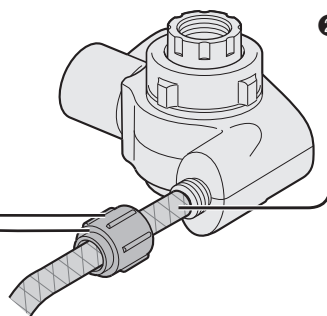
When extending the cord and hose from the right



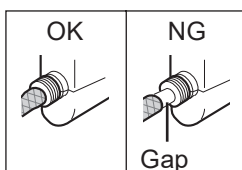
Installing the Alkaline Ionizer (continued)

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

- Remove the hose fastening nut from the bypass selector, and pass the hose through the nut.



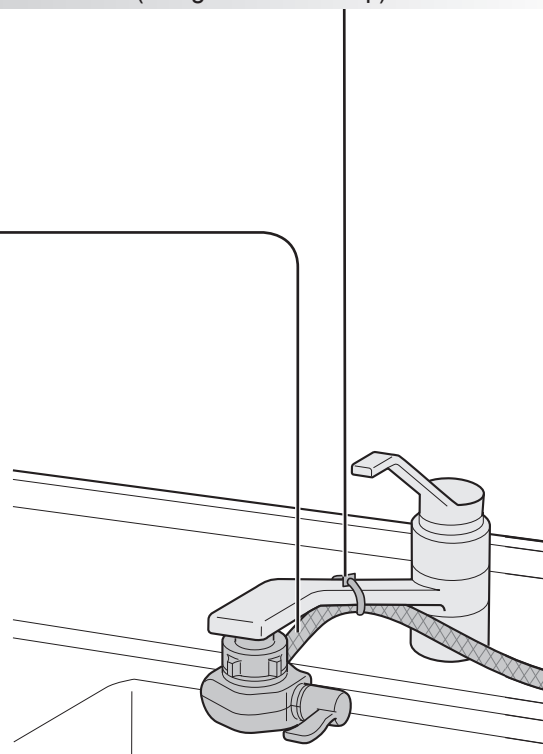
- Insert the water supply hose into the bypass selector as far as it will go.



- Tighten up the hose fastening nut securely.

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

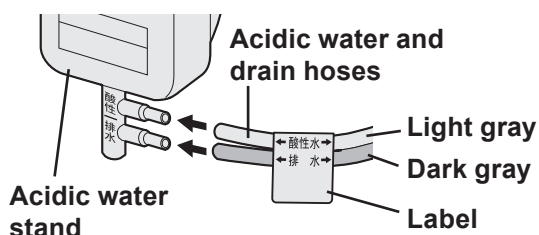
2 Secure the water supply hose (using the hose strap).



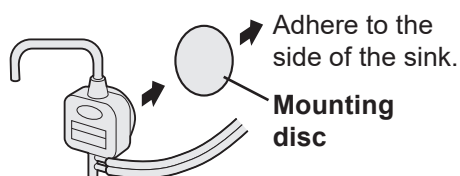
4 Install the acidic water stand.

- Connect the hoses as instructed on the label.
- Do not place a waste container or other such objects underneath the acidic water stand.

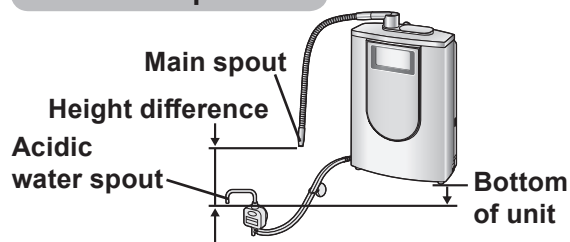
- Insert the acidic water and drain hoses securely.



- Attach the stand to the side of the sink. (If the suction disc slips off, stick the mounting disc onto the side of the sink.)

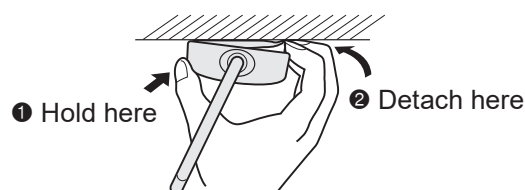


Installation position



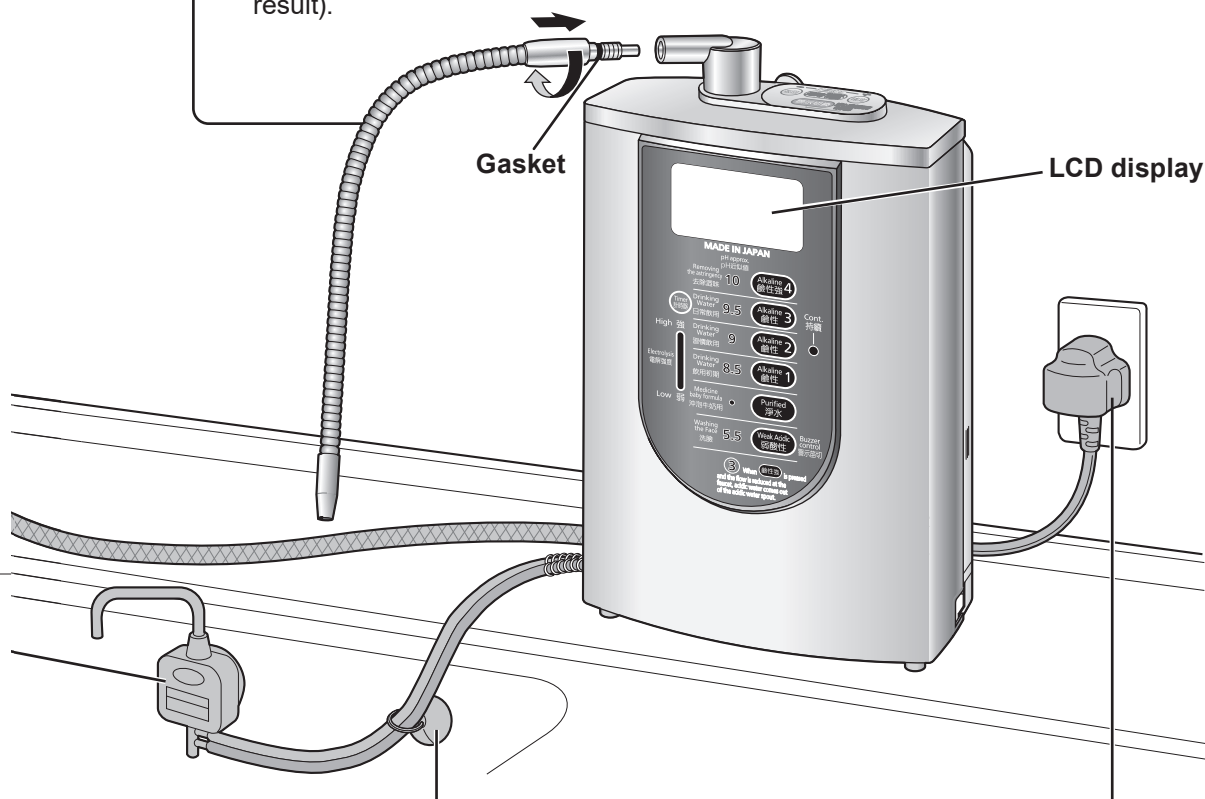
The acidic water spout must be below the level of the bottom of the unit and the difference in height between the main spout and acidic water spout must be greater than **10 cm** and less than **50 cm** (so that the appropriate pH level (ion concentration) is achieved).

How to remove the acidic water stand



3 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 gasket is not twisted (since this may cause the water to leak).
- Do not lift the unit by taking hold of the outlet pipe (otherwise damage may result).



5 Secure the acidic water and drain hoses using the suction disc.

- Secure the hoses so that they will not move out of place.



Note

- If the hose is too long, it is recommended that you cut it to the proper length (cut it straight down).
- Immediately after the Alkaline Ionizer has been installed, "Preparation time" blinks for about 20 seconds on the LCD display when water is run through the Alkaline Ionizer. (P. EN9)
- The language of the LCD displays can be selected from English or Chinese. (P. EN19)

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

- The buzzer sounds, about 15 seconds later the LCD display lights up in blue, and "鹼性1 (飲用初期)" appears on the display
- The Alkaline Ionizer's power consumption is 1 W even in the standby status.



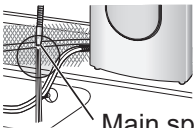
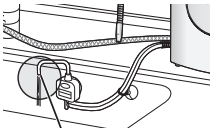

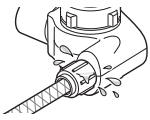
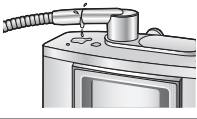
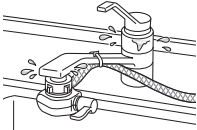
Important

- The power plug is normally kept connected to the power outlet (to keep the automatic electrode cleaning function working).

Installing the Alkaline Ionizer (continued)

Checks after installation

After installing the Alkaline Ionizer, run alkaline ion water through the unit for about 3 or 4 minutes to expel the air inside the main unit.

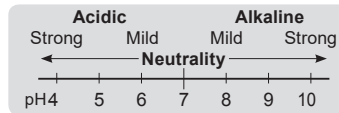
Check item	Trouble inspection location and remedial action	Reference page
<p>Is water coming out of the main spout?</p>  <p>Main spout</p>	<ul style="list-style-type: none"> ● Is the water supply hose bent or flattened. → If it is, straighten it out. 	EN13 ~ EN15
<p>Is water coming out of the acidic water spout when alkaline ion water has passed through the Alkaline Ionizer?</p>  <p>Acidic water spout</p>	<ul style="list-style-type: none"> ● Are the acidic water and drain hoses bent or flattened? → If they are, straighten them out. ● Have the acidic water and drain hoses been connected properly. → If not, check their connections to the acidic water stand. ● Does "Reduce flow" appear on the LCD display? → If so, gradually reduce the flow at the faucet until the display is cleared. ● If water coming out of the acidic water spout is interrupted, increase the height difference of the main spout and acidic water spout. 	EN13 ~ EN15 EN22
<p>Is any water leaking from where the bypass selector is connected?</p> 	<ul style="list-style-type: none"> ● 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. 	EN10 ~ EN12 -
<p>Is there any water leaking from where the water supply hose is connected?</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. 	EN14
<p>Is there any water leaking from where the outlet pipe is connected?</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. 	EN15
<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. 	-

EN16

Measuring the pH Level (Ion Concentration)

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).

● **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."

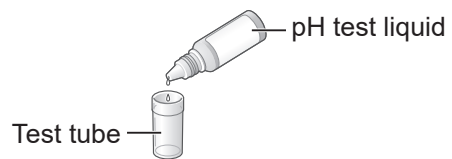


What to have ready: pH test kit (supplied accessory)

■ Procedure for measurement

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

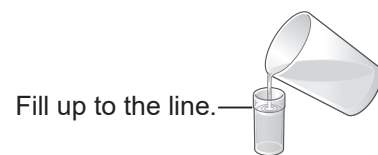
(The pH cannot be determined accurately any amount other than 2 drops.)



2 Run alkaline ion water or weak acidic water for approximately 10 seconds, then keep the sample water in a cup.

(In order to obtain a stable pH value.)

3 Put the sample water into the test tube.



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

pH Chart



pH standard

Alkaline 4 (Strongly Alkaline)	9.5 ~ 10.5
Alkaline 3	9.0 ~ 10.0
Alkaline 2	8.5 ~ 9.5
Alkaline 1	8.0 ~ 9.0
Weak Acidic	5.0 ~ 6.5



Important

- The color of the test water will change as time passes. Compare its pH level against the pH Chart right away.
- The pH level cannot be measured accurately using litmus paper available on the market. Be absolutely sure to measure it using the pH test kit.
- To dispose of the pH test liquid, dilute it with water before pouring it down the drain.
- The pH test liquid and pH Chart will become discolored if they are exposed to sunlight so store them in a dark place.



Note

- The pH test kit is for measuring the rough pH level.
 - The main components of the reagent are ethanol, methyl red, bromothymol blue and phenolphthalein.
- Depending on the water quality, the water treated by the Alkaline Ionizer may not be within the pH standard range or the alkaline ion water may not be alkaline (a liquid which appears blue or dark blue may change to a green or yellow color). If this is the case, take the following action.
 - Use "pH Fine Adjustment" to set the alkalinity or slight acidity to "Stronger". (P. EN24)
 - In addition, when the unpurified water is measured, the color of the test water may differ from what is on the pH Chart (due to the effects of carbonic acid or other components in the water).
- If the pH level is high, change the water quality to weak alkaline or mix the water with purified water before using it.
- When the cartridge is new (about a week old), the pH level may be somewhat higher: this is normal and does not indicate any trouble.

EN17

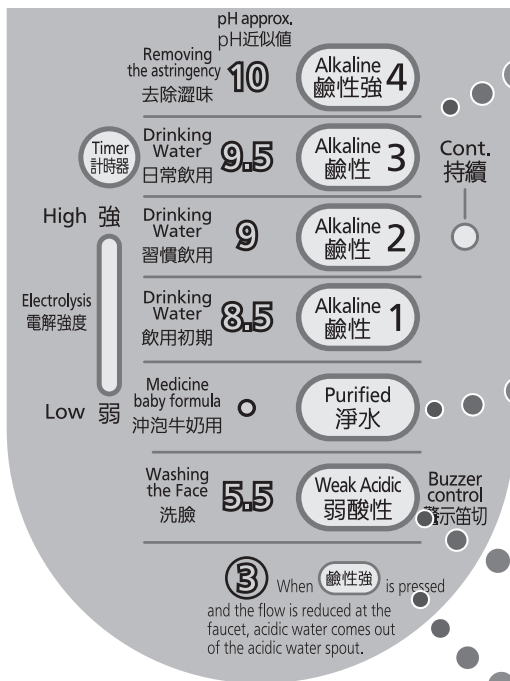
Before Operation

Tips on operating the Alkaline Ionizer (using it to suit the intended application)

Alkaline ion water:

- The pH level of alkaline ion water increases by about 0.5 per setting in the following sequence: Alkaline 1 → Alkaline 2 → Alkaline 3 → Alkaline 4 (Strongly Alkaline). In these instructions, "Alkalines 1 to 3" are collectively referred to as "Alkaline".
- Keep the amount of water consumed daily at around 0.5 liter to 1 liter at the "Alkaline 3".

Application		pH standard	
Alkaline 4 鹼性強	Removing astringency, boiling vegetables	When removing the astringency from burdock and spinach, etc. (Do not drink this water.)	9.5 ~ 10.5
Alkaline 3 鹼性	Drinking water in daily life	For coffee, tea, boiling or stewing food, cooking food in pots at the table, soups	9.0 ~ 10.0
Alkaline 2 鹼性	Drinking water for Experienced user	When cooking rice	8.5 ~ 9.5
Alkaline 1 鹼性	Drinking water for new user	When starting to drink alkaline ion water (first two weeks or so)	8.0 ~ 9.0



Purified water:

- This is filtered water which contains minimal impurities.

Applications Taking medicine or making baby formula, etc.

The water has not been subjected to electrolysis.

Weak acidic water:

- The mild acidity of this water is close to the acidity of the human skin.

Applications Washing the face

pH standard 5.0 to 6.5

Acidic water:

- When Weak Acidic 弱酸性 is pressed and the flow is reduced at the faucet, acidic water with a pH level of 3 or so comes out of the acidic water spout.

(For removing tea stains from tableware, odors left behind by cooking fish dishes, etc.)

pH standard 2.8 to 3.5*

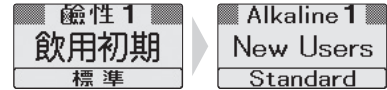
*: When the pH3 water quality indicator lights up.

Selecting the language of the LCD displays

The language of the LCD displays can be selected from English or Chinese. The default setting is Chinese.

Turn off the faucet, and press  down until the buzzer beeps four times (about 3 seconds).

- When the button is pressed again for about 3 seconds, the language of the LCD displays returns to Chinese.



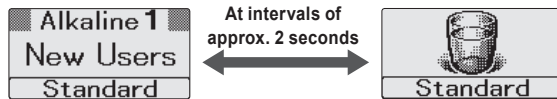
Note

- The steps to switch the displays to English cannot be taken while water is running through the Alkaline Ionizer or while the setting mode or check mode is established.
- Even if the displays are switched to English, displays in the setting or check mode will remain in Chinese.

LCD displays which appear during operation

During use

Characters and pictographs indicating the application are displayed alternately. e.g.) When the "Alkaline 1" (Drinking water for new user) is selected



↑ pH fine adjustment setting displayed here (P. EN24)

- "Electrolysis On" is displayed while the Alkaline Ionizer is making alkaline ion water or weak acidic water.

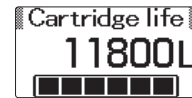


When the faucet is turned off ...

Standby status

The remaining cartridge life is displayed (P. EN35).

e.g.)



Note

- The LCD displays will be cleared about 30 to 45 seconds after a button has been operated or after the faucet has been turned off (in order to conserve power). They light up when another button is operated or the water flows to the Alkaline Ionizer.
- When the water flow has dropped (to less than 1.0 liter or so a minute), the remaining cartridge life is displayed even while water is running through the Alkaline Ionizer. In a case like this, the water is not electrolyzed (no electrolysis and no water treatment).

Electrolysis signal

While "Electrolysis On" is displayed, a display is provided to indicate roughly the electrolytic strength (amount of power used for the electrolysis). It does not appear while the water is turned off or while purified water is being produced.

- The electrolytic strength changes (in 8 steps) depending on the water quality selector buttons and water flow (amount of water being electrolyzed) used.

Electrolysis On



Lighted

- Indicates the electrolytic strength.

↑ Lights one block at a time from bottom to top.

During preparations



↓ Lights one block at a time from the top and bottom toward the center.

- When the "Reduce flow" message appears on the LCD display



Blink

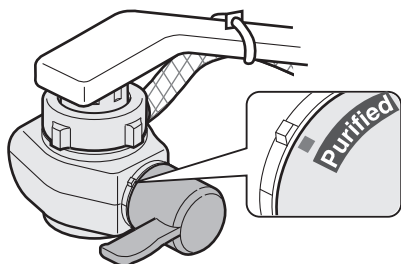
To turn off the electrolysis signal

Refer to "How to set" (P. EN32), and set "Electrolysis Signal" to "OFF".

Operation

Using alkaline ion water, weak acidic water or purified water

1 Set the bypass selector to "Purified".



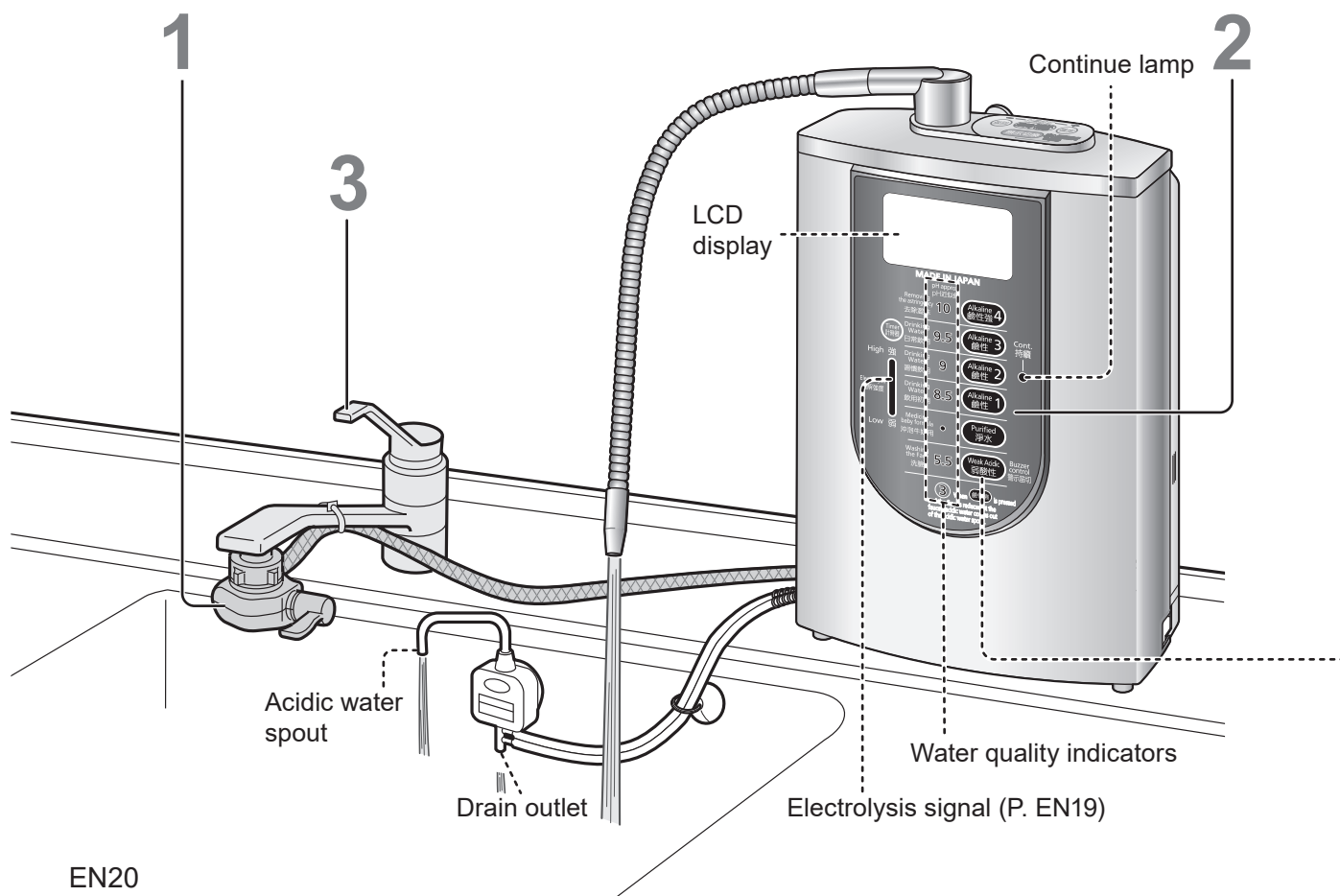
2 Press the water quality selector button corresponding to the type of water required.

- The buzzer beeps, and the **water quality indicator** and **LCD display light**.

3 Open the faucet.

- "Preparation time" now appears on the display.

Water quality selector button	Application	LCD display color
Alkaline 4 鹼性強 4	When removing the astringency from food or boiling vegetables	Orange
Alkaline 3 鹼性 3	Drinking water in daily life	Blue
Alkaline 2 鹼性 2	Drinking water for Experienced user	
Alkaline 1 鹼性 1	Drinking water for new user	Green
Purified 淨水	Medicine, milk	
Weak Acidic 弱酸性	Washing the face	Pink



EN20


4 Start using the Alkaline Ionizer.

- The “Preparation time” display is cleared, and the buzzer beeps three times. This indicates that the Alkaline Ionizer is now ready to be used.
- While weak acidic water is selected, the warning buzzer (weak acidic buzzer) continues to beep to warn you not to drink the water by mistake.

While alkaline ion water is selected

Acidic water comes out of the acidic water spout.
(For the pH standard, see P. EN51.)

■ To obtain acidic water with a pH level of 3 or so from the acidic water spout

Press  , and **gradually reduce the flow of water at the faucet** until the pH3 water quality indicator lights.

While purified water is selected

No water comes out of the acidic water spout or drain outlet.

While weak acidic water is selected

Alkaline ion water comes out of the drain outlet (do not drink this water).

- Turn off the faucet after use.

Continue lamp

The Continue lamp lights when “Alkaline” or “Purified Water” is selected. While it is lighted, the Alkaline Ionizer can be used as soon as the faucet is opened.

This is a useful function for continuing to use the Alkaline Ionizer to produce the same water quality from the main spout.

Use it:

- When washing rice
- When filling glasses with water and drinking more than one glass of water, etc.

- The Continue lamp does not light with Alkaline 4 (Strongly Alkaline) or weak acidic water.
- The Continue lamp will go off:
 - When “Alkaline” has been switched to “Purified Water”, “Weak Acidic” or “Alkaline 4 (Strongly Alkaline)”
 - When “Purified Water” has been switched to another water quality
 - When 10 minutes have elapsed after the faucet was turned off.

To stop the weak acidic buzzer

Press  Buzzer control 警示笛切

- When weak acidic water is used again, the buzzer will sound.
- **To turn off the weak acidic buzzer**
Refer to “How to set” (P. EN31), and set “Weak acidic buzzer” to “OFF”.
- **Buzzer volume**
The volume can be adjusted to “High”, “Medium” or “Low”. (P. EN32)

When the faucet is turned off after use:

- When Alkaline 4 (Strongly Alkaline), weak acidic or purified water has been used, the water quality is automatically returned to the “Alkaline” setting used last (because the “Alkaline priority” setting is “ON”)
- After the Continue lamp has gone off, water will continue to come out of the drain outlet for about 90 seconds (because the water inside the Alkaline Ionizer is draining).



Note

- You can collect the water that comes out from the acidic water spout or drain outlet while the Alkaline Ionizer is being used and use it to do the dishes or laundry or fill the bathtub.
 - Do not use it to rinse dishes or clothes.
 - When using a container to collect water, ensure that the water level in the container does not rise above the bottom of the Alkaline Ionizer.
- Even after the faucet has been turned off, a small amount of water will continue to come out of the main spout. This is normal and does not indicate any trouble.



Important

- **If the Alkaline Ionizer has not been used for more than 24 hours, continuous beep will sound when alkaline ion water or purified water passes through the unit, and the automatic electrode cleaning is started (this will last for about 15 seconds). During this period, do not use the water which comes out of the main spout.** (P. EN40)

Operation (continued)

Using alkaline ion water, weak acidic water or purified water (continued)

■ When the “Reduce flow” display appears (only while “Alkaline” or “Weak Acidic” is selected)

This message appears when too much 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*.

*: For “Alkaline”: Flow of about 5.0 liters/minute

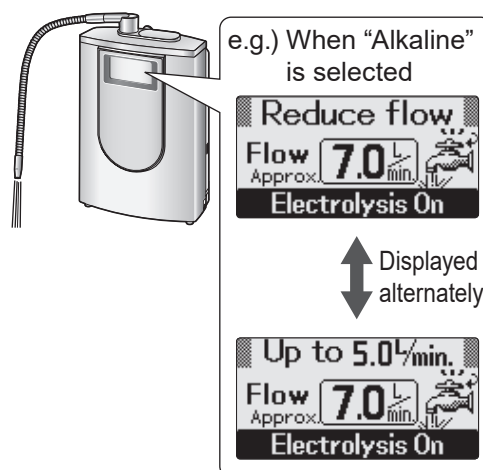
For “Weak Acidic”:

Flow of about 3.2 liters/minute



Note

- If the Alkaline Ionizer is used with the water quality/Application Pictogram displayed, the Flow will be indicated while the “Reduce flow” message is displayed. (This serves to provide a guideline for the flow adjustment.)
- When “Alkaline 4 (Strongly Alkaline)” is selected, the “Reduce flow” message tends to appear more often. (In this case, it is cleared at a rate of about 2.2 liters/minutes.)



■ To find out what the pH level is

Measure the pH level using the supplied pH test kit. (P. EN17)



Note

- The remaining cartridge life is displayed when the flow drops (to less than 1.0 liter/min or so) because the flow at the faucet has been overly reduced or because of changes in the tap water pressure. (Electrolysis will be suspended if “Alkaline” or “Weak Acidic” is selected.) If one of the water quality selector buttons is pressed in this status, the water quality is displayed for about 4 seconds, after which the “Flow reduced” and “Too much tightened at the faucet?” displays appear alternately. To use the Alkaline Ionizer again, open the faucet until the water quality display is restored.

To prevent the setting from returning to “Alkaline” after turning off the faucet

Refer to “How to set” (P. EN32), and set “Alkaline priority” to “OFF”.

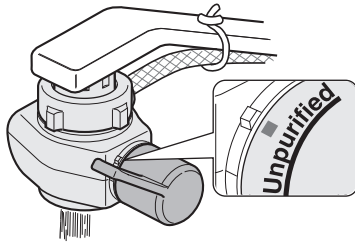
- “Alkaline priority” will be set to “OFF” for purified water only.

(“Alkaline” is restored after producing Alkaline 4 (Strongly Alkaline) or weak acidic and turning off the faucet.)

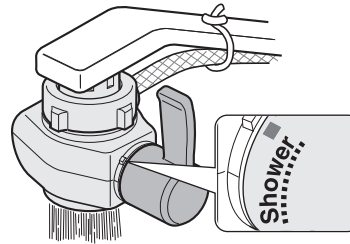
Using the unpurified water (tap water) By "unpurified water" is meant here the untreated tap water.

Set the bypass selector to "Unpurified" or "Shower".

The water comes **straight out**.



The water comes **out as a shower**.



English

Bypass selector

- If hot water has been run through the Alkaline Ionizer by mistake, it will come out of the hot water opening.

The hot water guard mechanism is activated (at temperatures over 60 °C) to protect the cartridge.

- A beep may be heard at this time: this is normal and does not indicate any trouble.

→ Shut off the hot water immediately, and run about 0.4 liter of cool water (for about 10 seconds) through the Alkaline Ionizer to cool it down.

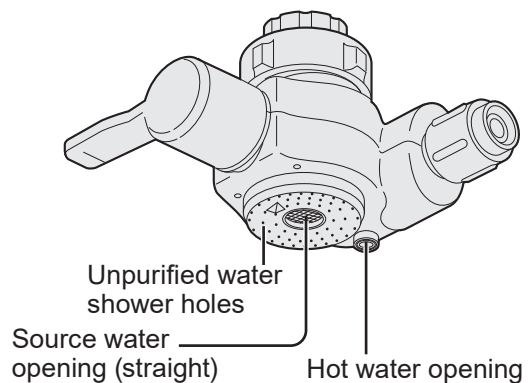
- Water will still come out of the hot water opening for a few moments: this is normal and does not indicate any trouble.



Important

- The table on the right shows the temperatures at which water can be used by the Alkaline Ionizer. Use water at these temperatures (otherwise trouble may result).

(Bypass selector as seen from below)



Position of bypass selector	Water temperature
Purified	Under 35 °C
Unpurified	Under 80 °C
Shower	

Operation (continued)

Finely adjusting the pH level (ion concentration)

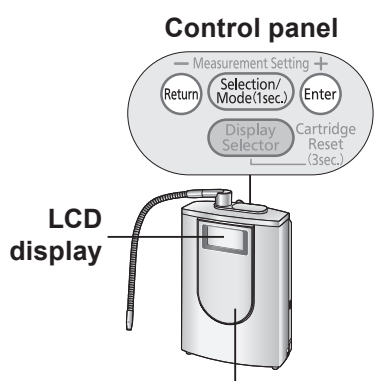
To bring the pH level of the water processed through the Alkaline Ionizer closer to the pH standard (water quality indicator number), the pH levels set for the “Alkaline” or “Weak Acidic” water quality selector buttons can be finely adjusted in 3 steps: “Stronger”, “Standard” or “Milder”.

Note

- 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.)



When it is purchased, “Standard” is selected.



Water quality selector buttons

Note

- When **Return** is pressed in steps 2 to 5, the previous screen is restored. The previous screen will not be restored when it is pressed after the settings are completed.
- Displays on the screens indicated will be in Chinese even if the English display mode is established.

EN24

Operation

1 Turn off the faucet, and press **Selection/Mode(1sec.)** on the control panel for 1 second.

2 Press **Enter**.

3 Press **Enter**.

4 To finely adjust the pH level, press one of the water quality selector buttons.

5 Press **Selection/Mode(1sec.)**, and select the pH fine adjustment setting.

- If there is more than one button for which the pH level is to be finely adjusted, repeat steps 4 and 5.

6 Press **Enter**.

<The setting is finished>

- Adjustment of all the water quality pH levels set in steps 4 and 5 is completed.

7 Press **Selection/Mode(1sec.)**, and select “是”.

8 Press **Enter**.

9 Check the pH level using the pH test kit. (P. EN17)

LCD displays

	Mode selection Setting mode Check mode
	Setting mode pH fine adjustment Continue mode Water output buzzer
e.g.)	pH fine adjustment: Alkaline 1 Stronger Standard Milder
e.g.) When is pressed	pH fine adjustment: Alkaline 3 Stronger Standard Milder
e.g.) To set to “Stronger”	pH fine adjustment: Alkaline 3 Stronger Standard Milder
	After about 3 seconds
Fine adjustment of the water quality pH level completed	Exit the setting mode? Yes No
	Exit the setting mode? Yes No
e.g.)	Cartridge life 11800L

For Your Operating Convenience

Measuring the water output volume

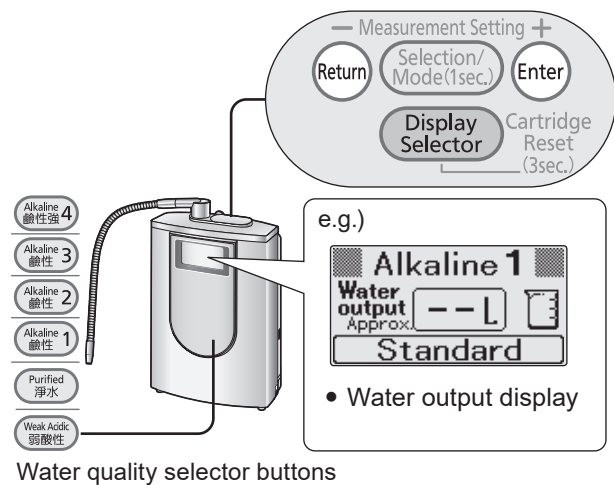
Each time water is run through the Alkaline Ionizer, the total water output (amount of water that comes out of the main spout) is calculated and indicated on the LCD display in 0.1-liter increments. (Water output display)

In measuring the water output, it is recommended that you set the main spout and acidic water spout as instructed in the procedure on P. EN26 (in order to improve the accuracy of the water output display).

English

- 1 Turn off the faucet, and press **Display Selector** repeatedly until “Water output” is displayed.**

- Each time the button is pressed, the display on the LCD changes.



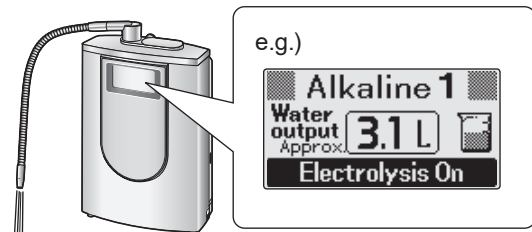
- 2 Press the desired water quality selector button, and then turn on the faucet.**

- As soon as the “Preparation time” display is cleared, the measuring begins.

- 3 Measure the water output.**

- While the output is being measured, the **water output buzzer** sounds once for every 0.2 liter or so of water output.

- 4 Turn off the faucet when the water output display reaches the figure to be measured.**



- **To turn off the water output buzzer**
Refer to “How to set” (P. EN31), and set “Water output buzzer” to “OFF”.

Important

- If there is too large a discrepancy between the water output display and actual water output, perform “Correcting the water output display” (P. EN28).

For Your Operating Convenience (continued)

Measuring the water output volume (continued)

- To sound the advisory buzzer when the amount to be measured is reached

1 Press the water quality selector button corresponding to the water quality that is to be selected.

- Each time the button is pressed, the display on the LCD changes.

2 With the faucet turned off, press or repeatedly until the amount to be measured is reached.

- The LCD display changes to the “Measure setting” screen.
- The water output amount which can be set ranges from **0.6 to 5.0 liters**.
- Figures in a range from 0.6 to 2.0 liters can be set in **0.2-liter increments**.
Figures in a range from 2.0 to 5.0 liters can be set in **0.5-liter increments**.
(See table on the right.)

To stop the setting

- Press another control button or another water quality selector button.

3 Open the faucet.

- As soon as the “Preparation time” display is cleared, the measurement begins.

4 When the advisory buzzer beeps, turn off the faucet.

Setting range	+	Display	-	Display
0.6 to 2.0 liters	Each time button is pressed Higher	Increased in increments of 0.2	Lower Each time button is pressed	Reduced in increments of 0.2
2.0 to 5.0 liters		Increased in increments of 0.5		Reduced in increments of 0.5

LCD displays

e.g.) 0.6 liter



- The previously set figure is displayed for the second and subsequent times.

LCD displays



▼
The advisory buzzer beeps when the set amount is reached.



Note

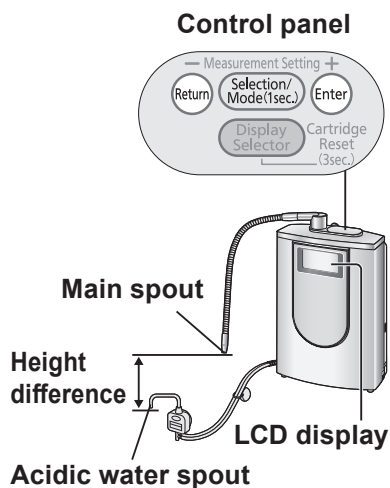
- If the faucet is not turned off even when the set amount is passed, the measurement will continue and the water output displayed. In this case, the water output buzzer will beep once for each 0.2 liter of water output.

■ Setting the difference in height between the main spout and acidic water spout

It is recommended that this height be set in order to improve the accuracy of the water output display.

Before proceeding with the setting, check the difference in height between the main spout and acidic water spout without fail.

- Use the Alkaline Ionizer with a height difference between the two spouts of 10 to 50 cm.



Note

- When **Return** is pressed in steps 2 to 6, the previous screen is restored. After the settings are completed, the previous screen will not be restored even when the button is pressed.
- Once the settings have been set, they will be stored in the memory until other settings are established (until they are changed).
- Displays on the screens indicated will be in Chinese even if the English display mode is established.

Operation

- 1 Turn off the faucet, and press **Selection/Mode(1sec.)** on the control panel for 1 second.
- 2 Press **Enter**.
- 3 Press **Selection/Mode(1sec.)**, and select the “計量條件設定”.
- 4 Press **Enter**.
 - To perform “Correcting the water output display”, proceed to step 5 on P. EN28.
- 5 Press **Enter**.
- 6 Press **Selection/Mode(1sec.)**, and select the height difference setting.
 - Set a value in accordance with the height difference which you measured.
- 7 Press **Enter**.
<The setting is finished>
- 8 Press **Selection/Mode(1sec.)**, and select “是”.
- 9 Press **Enter**.

LCD displays

模式選擇
[設定模式]
確認模式

Mode selection
Setting mode
Check mode

設定模式
[pH微調]
持續模式
出水量顯示音

Setting mode
pH fine adjustment
Continue mode
Water output buzzer

設定模式
[電解信號]
計量條件設定
終了

Setting mode
Electrolysis signal
Measurement condition setting
Exit

計量條件設定
[高低差補正]

Measurement condition setting
Height difference
Compensation

高低差
[10~20 (cm)]
[20~30 (cm)]
[30~40 (cm)]

Measurement condition setting
10 to 20 (cm)
20 to 30 (cm)
30 to 40 (cm)

e.g.) To select “30 to 40 (cm)”

高低差
[10~20 (cm)]
[20~30 (cm)]
[30~40 (cm)]

Measurement condition setting
10 to 20 (cm)
20 to 30 (cm)
30 to 40 (cm)

高低差
30~40 (cm)
設定完畢

After about 3 seconds

是否設定模式
終了?
[是]
[不是]

Height difference is now set to 30 to 40 (cm)

Exit the setting mode?
Yes
No

是否設定模式
終了?
[是]
[不是]

Exit the setting mode?
Yes
No

e.g.) [Cartridge life]
11800L
[Progress bar]

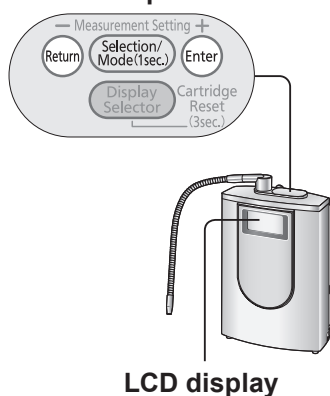
For Your Operating Convenience (continued)

Measuring the water output volume (continued)

■ Correcting the water output display

There is a slight difference between the water output display and actual output of water. **(This depends on the usage conditions, water pressure and other factors.)** If there is a significant difference, correct the water output display.

Control panel



LCD display

Operation

After performing **steps 1 to 4** of "Setting the difference in height between the main spout and acidic water spout" on P. EN27, perform the steps below.

5 Press **Selection/Mode(1sec.)**, and select "補正".

6 Press **Enter**.

7 Press **Selection/Mode(1sec.)**, and select one of the correction values listed in the table.

Difference between water output displayed and actual water output	Correction value
When the actual water output is about 20% more than the display	-20%
When the actual water output is about 10% more than the display	-10%
When the difference is less than 10%	±0% *
When the actual water output is about 10% less than the display	+10%
When the actual water output is about 20% less than the display	+20%

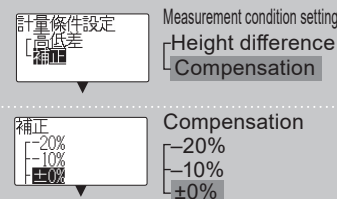
*: No compensation

8 Press **Enter**.
<The setting is finished>

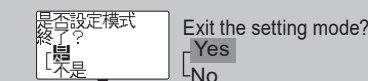
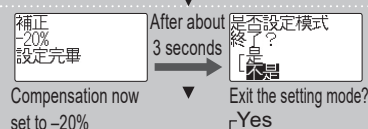
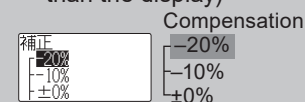
9 Press **Selection/Mode(1sec.)**, and select "是".

10 Press **Enter**.

LCD displays



e.g.) When the water output display is 0.5 liter, and the actual water output is 0.6 liter (the water output is about 20% more than the display)



Note

- When **Return** is pressed in steps 5 to 7, the previous screen is restored. After the settings are completed, the previous screen will not be restored even when the button is pressed.
- Once the settings have been set, they will be stored in the memory until other settings are established (until they are changed).
- Displays on the screens indicated will be in Chinese even if the English display mode is established.

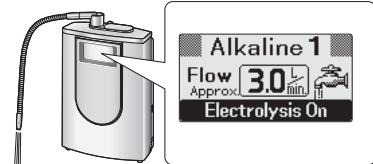
EN28

Monitoring the water flow

While water is running through the Alkaline Ionizer, the water flow (total flow of water coming out of the main spout, acidic water spout and drain outlet per minute) is displayed and can be monitored. (Flow display)


Press  repeatedly until "Flow" appears on the LCD display.

- Each time the button is pressed, the LCD display changes.
- No figure for the flow will be displayed when the supply of water has been turned off or when the flow is under about 1.0 liter/minute.

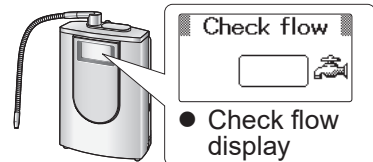


When the water flow cannot be displayed

When the flow cannot be displayed (such as when the water pressure is too low), it can be monitored on the "Check flow" display.

1 Turn off the faucet, and press  down until the buzzer beeps four times (about 3 seconds).

- When the button is pressed again for about 3 seconds, the display returns to the previous screen. The water quality is automatically returned to the "Alkaline" setting used last.



2 Open the faucet.

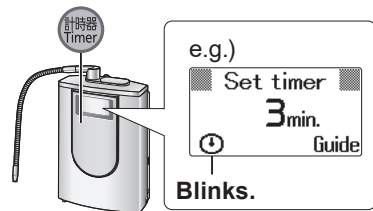
- When the faucet is turned off, the display returns to the previous screen.

Using the timer

The buzzer beeps (for about 10 seconds) when the set time is reached. This is useful when setting cooking times.

1 Turn off the faucet, press , and set the time.

- The LCD display changes to the "Set timer" screen.
- Each time the button is pressed, the time is increased in per 1-minute.
- When the button is held down, the time is increased in per 5-minute.
- Any time **from 1 to 60 minutes** can be set.




After about 3 seconds

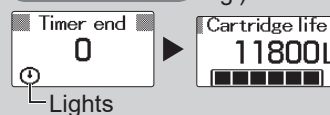
The buzzer beeps twice to signal the start of the countdown.

When the set time is reached, the buzzer beeps




(for about 10 seconds).

- To stop the buzzer, press .

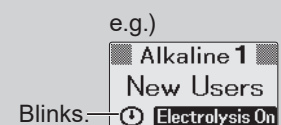
LCD displays e.g.)



Note

- The Alkaline Ionizer can be used while the time is being counted down. (The LCD display changes to what is shown on the right, for example.)
- The timer setting is released when:
 - Water is run through the Alkaline Ionizer during the timer setting operation.
 -  is pressed while the time is being counted down. (No timer operations can be performed while water is running through the Alkaline Ionizer.)
 - The error code has appeared (P. EN44).
-  changes to  when 10 seconds remain for the time set.

LCD displays



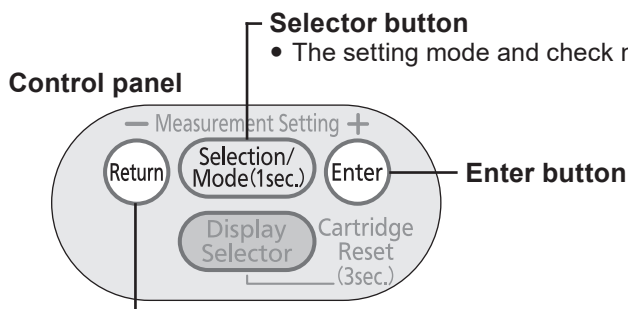
EN29

For Your Operating Convenience (continued)

Setting mode and check mode

The following items can be set and checked in the setting mode and check mode. **(No setting or checking operations can be performed while water is running through the Alkaline Ionizer.)**

- The settings established when purchased can be used for this mode.



Note

- The settings and checks will be stopped when:
 - None of the buttons has been operated for 2 or more minutes.
 - Water is run through the Alkaline Ionizer.
 - One of the water quality selector buttons has been pressed.

Return button

- Press this to return to the previous screen.
- After the settings are completed, the previous screen will not be restored even when the button is pressed.

Items which can be set		Setting method (page)	Default settings
Stronger, Standard or Milder for "pH fine adjustment"	● The pH standard set in the "Alkaline" and "Weak acidic" water quality selector buttons can be adjusted in 3 levels.	EN24	Standard
"Continue mode" ON and OFF	● When OFF is set, the "Continue" mode is released, and the continue lamp (P. EN21) goes off.	EN31	ON
"Water output buzzer" ON and OFF	● When OFF is set, the buzzer does not beep during the water output count.	EN31	ON
"Weak acidic buzzer" ON and OFF	● When OFF is set, the buzzer does not beep while weak acidic water is selected.	EN31	ON
"Alkaline priority" ON and OFF	● When OFF is set, the "Alkaline" setting is not restored after using purified water and turning off the faucet.	EN32	ON
"Buzzer volume" High, Medium and Low	● The buzzer volume can be adjusted in 3 steps.	EN32	Medium
"Electrolysis Signal" ON and OFF	● When OFF is set, the electrolysis signal (P. EN19) does not light.	EN32	ON
Measurement condition setting	● This setting is performed to improve the accuracy of the water output display (P. EN24).	EN27 ~ EN28	-

Items which can be checked		Check method (page)
Optional accessories	● The model number of the optional replacement cartridge can be checked.	EN33
Setting check	● The settings established in the setting mode can be checked.	EN33

EN30

■ **How to set** (For details on the items which can be set and the settings established when purchased, see P. EN30.)

Operation	LCD displays		
Item set	Continue mode OFF (ON) Water output buzzer OFF (ON) Weak acidic buzzer OFF (ON)		
1 Turn off the faucet, and press on the control panel for 1 second.	Mode selection Setting mode Check mode		
2 Press .	Setting mode pH fine adjustment Continue mode Water output buzzer		
3 Select the item using . ● Each time this button is pressed, the selection changes.	Setting mode pH fine adjustment Continue mode Water output buzzer	Setting mode Weak acidic buzzer Alkaline priority Buzzer volume	
4 Press .	Continue mode On Off	Water output buzzer On Off	Weak acidic buzzer On Off
5 Select the item using . ● Each time this button is pressed, the selection changes.	Select "ON" to set this item ON Continue mode On Off	Select "ON" to set this item ON Water output buzzer On Off	Select "ON" to set this item ON Weak acidic buzzer On Off
6 Press . <The setting is finished>	If "ON" was selected, the "持續模式「ON」完畢" message appears. Continue mode set to OFF.	If "ON" was selected, the "出水量警示音「ON」完畢" message appears. Water output buzzer set to OFF.	If "ON" was selected, the "弱酸性警示音「ON」完畢" message appears. Weak acidic buzzer set to OFF.
After about 3 seconds			
7 Select the item using . ● Each time this button is pressed, the selection changes.	Select "不是" to set another item. If "不是" was selected, go back to step 3.	Exit the setting mode?	
8 Press .	Remaining cartridge life display (standby status) e.g.) 		

Note

- When is pressed in steps 2 to 5, the previous screen is restored. After the settings are completed, the previous screen will not be restored even when the button is pressed.
- Displays on the screens indicated will be in Chinese even if the English display mode is established.

For Your Operating Convenience (continued)

Setting mode and check mode (continued)

- **How to set** (For details on the items which can be set and the settings established when purchased, see P. EN30.)






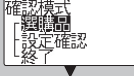

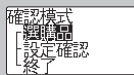
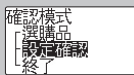
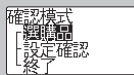
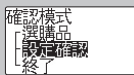
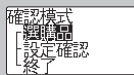
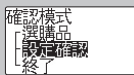

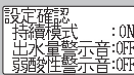
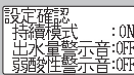
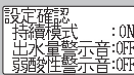


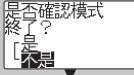
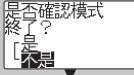
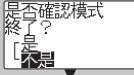

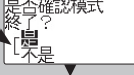
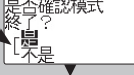
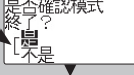


Operation	LCD displays
<p>Item set</p> <p>1 Turn off the faucet, and press on the control panel for 1 second.</p>	<p>Alkaline priority OFF (ON) Buzzer volume High, Medium, Low Electrolysis signal OFF (ON)</p> <p>Mode selection Setting mode Check mode</p>
<p>2 Press .</p>	<p>Setting mode pH fine adjustment Continue mode Water output buzzer</p>
<p>3 Select the item using .</p> <ul style="list-style-type: none"> Each time this button is pressed, the selection changes. 	<p>Setting mode Weak acidic buzzer Alkaline priority Buzzer volume</p> <p>Setting mode Weak acidic buzzer Alkaline priority Buzzer volume</p> <p>Setting mode Weak acidic buzzer Alkaline priority Buzzer volume</p> <p>Setting mode Electrolysis signal Measurement condition setting Exit</p>
<p>4 Press .</p> <ul style="list-style-type: none"> The current setting is displayed in white lettering against a black background. 	<p>Alkaline priority On Off</p> <p>Buzzer volume High Medium Low</p> <p>Electrolysis signal On Off</p>
<p>5 Select the item using .</p> <ul style="list-style-type: none"> Each time this button is pressed, the selection changes. 	<p>Select "ON" to set this item ON</p> <p>Select the desired volume level. e.g.) Set the level to High.</p> <p>Select "ON" to set this item ON</p>
<p>6 Press .</p> <p><The setting is finished></p>	<p>If "ON" was selected, the "鹼性優先「ON」完畢" message appears.</p> <p>The selected volume level is displayed here.</p> <p>If "ON" was selected, the "電解信號「ON」完畢" message appears.</p>
<p>After about 3 seconds</p>	
<p>7 Select the item using .</p> <ul style="list-style-type: none"> Each time this button is pressed, the selection changes. 	<p>Select "不是" to set another item.</p> <p>If "不是" was selected, go back to step 3.</p> <p>Exit the setting mode? Yes No</p>
<p>8 Press .</p>	<p>Remaining cartridge life display (standby status) e.g.) Cartridge life 11800L</p>

Note

- When is pressed in steps 2 to 5, the previous screen is restored. After the settings are completed, the previous screen will not be restored even when the button is pressed.
- Displays on the screens indicated will be in Chinese even if the English display mode is established.


EN32

■ How to set (For details on the items which can be checked, see P. EN30.)

Operation	LCD displays						
Item checked	<table border="1"> <thead> <tr> <th data-bbox="644 524 1023 566">Optional accessory: Cartridge</th> <th data-bbox="1029 524 1388 566">Setting checks</th> </tr> </thead> </table>	Optional accessory: Cartridge	Setting checks				
Optional accessory: Cartridge	Setting checks						
1 Turn off the faucet, and press  for 1 second.	 <table border="1"> <tr> <td data-bbox="1029 600 1182 629">Mode selection</td> </tr> <tr> <td data-bbox="1029 629 1177 658">Setting mode</td> </tr> <tr> <td data-bbox="1029 658 1166 687">Check mode</td> </tr> </table>	Mode selection	Setting mode	Check mode			
Mode selection							
Setting mode							
Check mode							
2 Press , and select “確認模式”.	 <table border="1"> <tr> <td data-bbox="1029 707 1182 736">Mode selection</td> </tr> <tr> <td data-bbox="1029 736 1177 766">Setting mode</td> </tr> <tr> <td data-bbox="1029 766 1166 795">Check mode</td> </tr> </table>	Mode selection	Setting mode	Check mode			
Mode selection							
Setting mode							
Check mode							
3 Press .	 <table border="1"> <tr> <td data-bbox="1029 808 1161 837">Check mode</td> </tr> <tr> <td data-bbox="1029 837 1257 866">Optional accessories</td> </tr> <tr> <td data-bbox="1029 866 1182 896">Setting checks</td> </tr> <tr> <td data-bbox="1029 896 1082 925">Exit</td> </tr> </table>	Check mode	Optional accessories	Setting checks	Exit		
Check mode							
Optional accessories							
Setting checks							
Exit							
4 Select the item using . <ul style="list-style-type: none"> Each time this button is pressed, the selection changes. 	<table border="1"> <tr> <td data-bbox="644 954 778 1028">  </td> <td data-bbox="785 954 1013 1028"> Check mode Optional accessories Setting checks Exit </td> <td data-bbox="1029 954 1163 1028">  </td> <td data-bbox="1169 954 1398 1028"> Check mode Optional accessories Setting checks Exit </td> </tr> </table>		Check mode Optional accessories Setting checks Exit		Check mode Optional accessories Setting checks Exit		
	Check mode Optional accessories Setting checks Exit		Check mode Optional accessories Setting checks Exit				
5 Press .	<table border="1"> <tr> <td data-bbox="703 1099 948 1173"> Check the model number. </td> <td data-bbox="1029 1099 1398 1173"> e.g.)  <table border="1"> <tr> <td data-bbox="1216 1099 1364 1128">Setting checks</td> </tr> <tr> <td data-bbox="1216 1128 1380 1158">Continue mode: ON</td> </tr> <tr> <td data-bbox="1216 1158 1380 1187">Water outlet buzzer: OFF</td> </tr> <tr> <td data-bbox="1216 1187 1380 1216">Weak acidic buzzer: OFF</td> </tr> </table> </td> </tr> </table>	Check the model number.	e.g.)  <table border="1"> <tr> <td data-bbox="1216 1099 1364 1128">Setting checks</td> </tr> <tr> <td data-bbox="1216 1128 1380 1158">Continue mode: ON</td> </tr> <tr> <td data-bbox="1216 1158 1380 1187">Water outlet buzzer: OFF</td> </tr> <tr> <td data-bbox="1216 1187 1380 1216">Weak acidic buzzer: OFF</td> </tr> </table>	Setting checks	Continue mode: ON	Water outlet buzzer: OFF	Weak acidic buzzer: OFF
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Setting checks							
Continue mode: ON							
Water outlet buzzer: OFF							
Weak acidic buzzer: OFF							
6 Select the item using . <ul style="list-style-type: none"> Each time this button is pressed, the selection changes. 	<p style="text-align: center;">▼ (Go to step 7) Check the settings.</p>						
7 Press .	<table border="1"> <tr> <td data-bbox="863 1377 997 1451">  </td> <td data-bbox="1029 1377 1241 1451"> Exit the check mode? Yes No </td> </tr> </table>		Exit the check mode? Yes No				
	Exit the check mode? Yes No						
8 Select the item using . <ul style="list-style-type: none"> Each time this button is pressed, the selection changes. 	<table border="1"> <tr> <td data-bbox="644 1478 857 1603"> Select “不是” to set another item. If “不是” was selected, go back to step 4. </td> <td data-bbox="863 1514 997 1588">  </td> <td data-bbox="1029 1514 1241 1588"> Exit the check mode? Yes No </td> </tr> </table>	Select “不是” to set another item. If “不是” was selected, go back to step 4.		Exit the check mode? Yes No			
Select “不是” to set another item. If “不是” was selected, go back to step 4.		Exit the check mode? Yes No					
9 Press .	Remaining cartridge life display (standby status) e.g.) 						



Note

- When  is pressed in steps 2 to 6, the previous screen is restored. After step 7, the previous screen will not be restored when the button is pressed.
- Displays on the screens indicated will be in Chinese even if the English display mode is established.

Maintenance

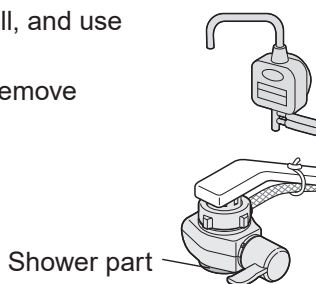


Important

- 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 acidic water stand

- Soak a soft cloth in water, wring it out well, and use it to wipe the units and parts.
- Use a toothbrush or other implement to remove foreign matter at the shower part.

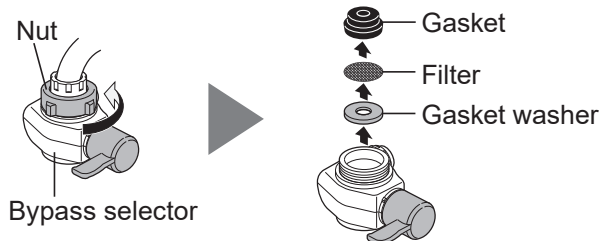


Bypass selector mount coupling (filter and water intake)

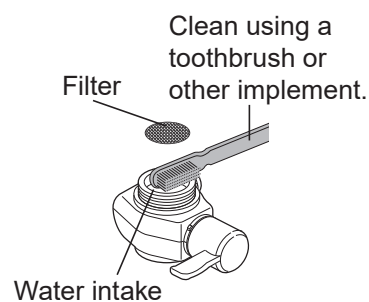
The water volume will be reduced if foreign matter is allowed to clog the filter at the bypass selector mount coupling. Follow the steps below to clean the filter.

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

- Set the bypass selector to "Purified".

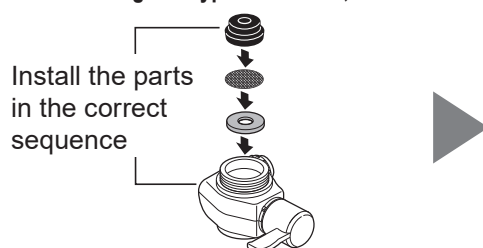


2 Wash the filter and water intake.

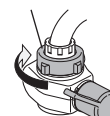


3 Install the bypass selector.

- 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 "Unpurified" or "Shower" setting.



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



- Make sure the bypass selector is not inclined.

EN34

Before Replacing the Cartridge

Replacement display

The volume of water which has run through the Alkaline Ionizer is totalized, and the remaining cartridge life is indicated on the LCD display. Use this display as a general guideline for when to replace the cartridge.

- The cartridge life (12 000 liters) is a figure based on tests involving a standard water quality and water pressure (JIS S 3201: Testing methods for household water purifiers), and with tap water in general there may a significant difference in the clogging time depending on the water quality (turbidity, iron rust, etc.) and water pressure.

e.g.)



Remaining cartridge life display

- This indicates in per 1-liter the remaining volume of water which can be processed by the cartridge until the total run-through water volume serving as the general guideline for when to replace the cartridge.
- When the display shows "150 L" or less, the "Cartridge near end of life" message appears. Obtain a replacement cartridge.

Indicator

- As the remaining cartridge life becomes shorter and shorter, the black blocks "■" in the bar display disappears.

Time for replacement of cartridge

- Replace the cartridge when the following is indicated on the LCD display.

Displays (shown alternately)	Description
<div style="display: flex; align-items: center; gap: 10px;"> <div style="border: 1px solid black; padding: 5px; text-align: center;"> U25 Cartridge life (clogging) </div> <div style="text-align: center;"> ↔ About 2 seconds </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> Replace cartridge, and press Switch Display for about 3 seconds. </div> </div>	<p>This display indicates that the cartridge has come to the end of its life due to internal clogging.</p> <ul style="list-style-type: none"> ● When water is run through the Alkaline Ionizer, the LCD display changes to "Flow".
<div style="display: flex; align-items: center; gap: 10px;"> <div style="border: 1px solid black; padding: 5px; text-align: center;"> U26 Cartridge life </div> <div style="text-align: center;"> ↔ About 2 seconds </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> Replace cartridge, and press Switch Display for about 3 seconds. </div> </div>	<p>This display indicates that the total run through water volume has reached 12 000 liters.</p>

Before Replacing the Cartridge (continued)

■ Even if U25 or U26 is not displayed, replace the cartridge when:

- The water has an unpleasant odor or taste (this means that the cartridge's ability to filter out these impurities has deteriorated).
- The period of time (about 1 year) that serves as a general guideline for when to replace the cartridge has passed.

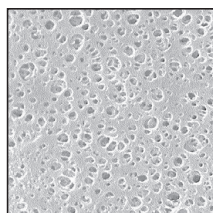
■ Period of time serving as a general guideline for when to replace the cartridge (for a year using 30 liters per day)

(Replacement cartridge: Model number TK-AS45C1-EX) (P. EN49)

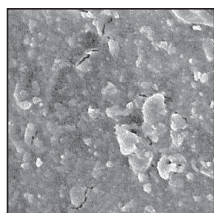
Replacement guideline	Substances removed by cartridge
About 1 year	Free residual chlorine, turbidity, total trihalomethane, chloroform, bromodichloromethane, dibromochloromethane, bromoform, tetrachloroethylene, trichloroethylene, 1,1,1-trichloroethane, CAT, 2-MIB (mold smell), soluble lead

Differences in usage period by water quality

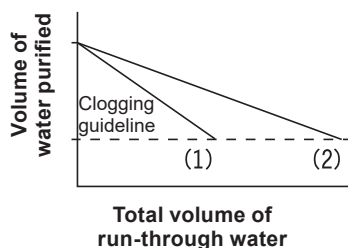
Inside the cartridge is a hollow fiber membrane filter for removing microscopic dirt. The cartridge's life will be shortened when the Alkaline Ionizer is used with a quality of water containing many clogging substances.



Hollow fiber membrane surface (new filter)



Clogged hollow fiber membrane surface



- (1) Water containing many clogging substances
- (2) Water with standard quality



Note

- The volume of water coming out of the Alkaline Ionizer may be reduced when:
 - The water temperature is low (because the water does not run through the cartridge so easily).
 - The Alkaline Ionizer is used in areas where the water pressure is low (under 70 kPa).
 - The pressure of the tap water has dropped because of the demand for tap water in the area concerned.
 - Immediately after a period when the water supply was shut off such as during plumbing work.

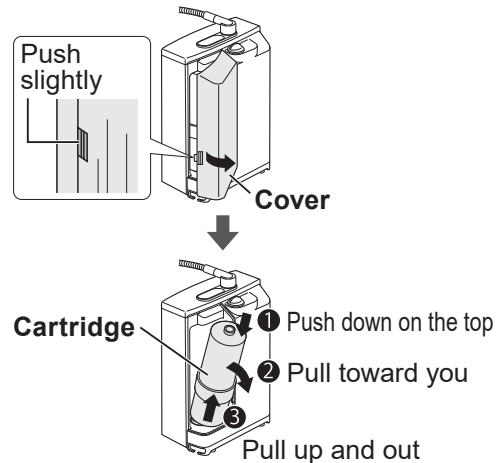
Replacing the Cartridge

- **Replace the cartridge without disconnecting the power plug.** (The cartridge life cannot be reset when the power plug is disconnected.)
- **Do not replace the cartridge with the condition of main unit flat.**
- **Do not place the main spout upwards.**
- **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.)

English

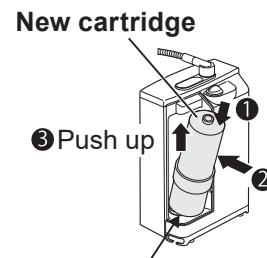
1 Remove the cover, and then remove the cartridge.

- Take care since water will drip from the cartridge. Water may also emerge from the bottom of the unit (this does not indicate that there is a leak).
- Do not place the unit on its side or upside down with the cartridge removed (since water may get inside the unit and cause malfunction).



2 Install the new cartridge.

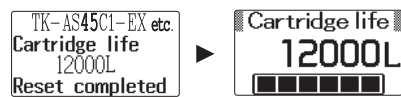
- After putting the cartridge in place, push it up.



Align the center of the bottom of the cartridge with the center of the cartridge hole, and while pressing it down, push the cartridge in.

3 Press Display Selector Cartridge Reset (3sec.) (for about 3 seconds).

- The "Reset completed" display appears, and **about 3 seconds later** the "Cartridge life" display appears.
- Refer to the displays on the right, and check whether the remaining cartridge life has been reset correctly.

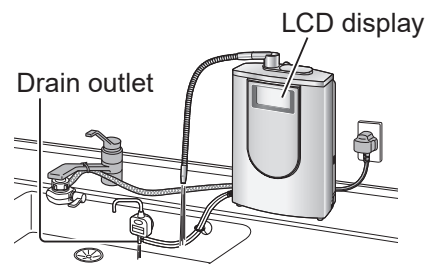


Reset completed screen

Cartridge life display

4 Open the faucet, and run purified water through the Alkaline Ionizer (for about 3 or 4 minutes).

- When water is run through the Alkaline Ionizer, "Preparation time" blinks for about 20 seconds on the LCD display.
- While water is running through the Alkaline Ionizer, check that water is not leaking from the area where the cartridge was installed and that water is coming out of the drain outlet.

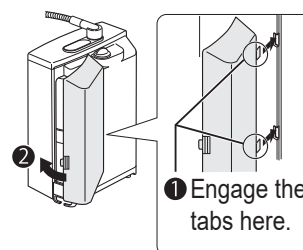


Continued on next page

EN37

Replacing the Cartridge (continued)

- 5** Turn off the faucet, and put the cover back on.



Important

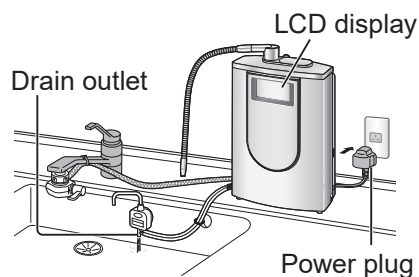
- Dispose of the used cartridge in accordance with the applicable ordinances in the area concerned.
- Even replacing the cartridge before U25 or U26 is displayed, the cartridge life display should be reset according to step 3 in order to display the remaining cartridge life correctly.

When Moving the Alkaline Ionizer

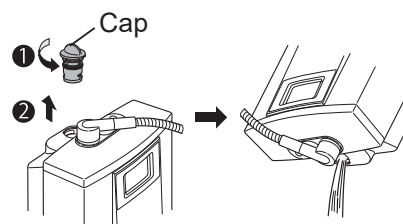
Follow the steps below to drain off the water in the Alkaline Ionizer.

1 Disconnect the power plug, and connect it again.

- “Preparation time” blinks for about 15 seconds on the LCD display, and water comes out of the drain outlet.
- Repeat this step two or three times, and disconnect the power plug.

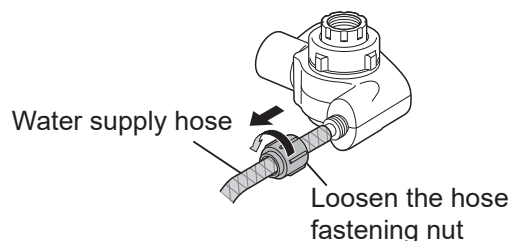


2 Remove the cap, turn the unit upside down, and drain off the inside water.



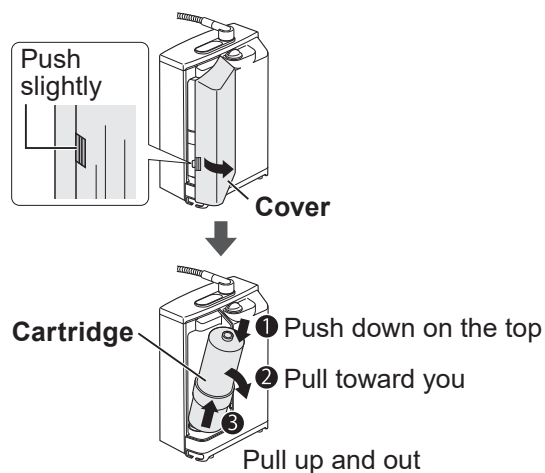
3 Disconnect the water supply hose from the bypass selector.

- After disconnecting the water supply hose, put the hose fastening nut back on the bypass selector (to ensure that the nut is not misplaced or lost).
- Drain off the water inside the bypass selector.



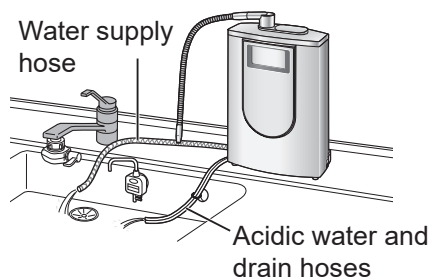
4 Remove the cartridge.

- Do not place the unit on its side or upside down with the cartridge removed (since water may get inside the unit and cause trouble).



5 Put the end of the water supply hose at a position lower than the bottom of the unit, and drain off the water inside the hose.

- Disconnect the acidic water and drain hoses from the acidic water stand, and put them at a position lower than the bottom of the unit.
- Return the cap and cartridge to their original positions.



Important

- Not all the water may be adequately drained off in this process so factor in water leaks and pack the Alkaline Ionizer accordingly when transporting it.

When not in use for a long time

If you will not use this unit for a week or more, make sure to follow the instructions below.

1 Remove the cartridge from the unit (P. EN37), put it inside a plastic bag, and then store the bag in the refrigerator.

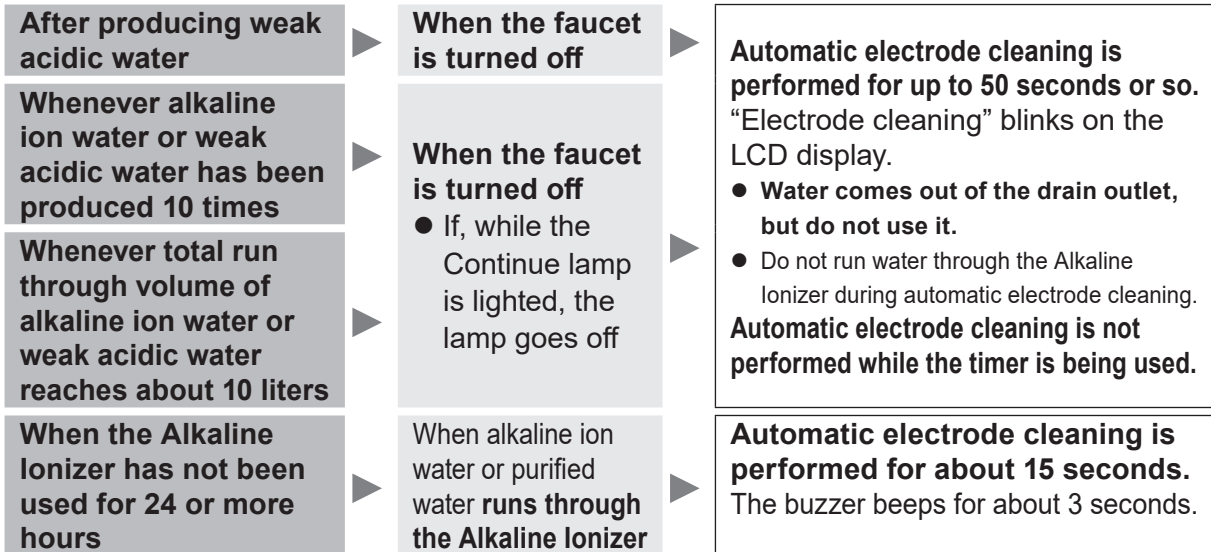
- Remove the air from the bag before closing it.

2 Disconnect the power plug.

- To use this unit again
 - 1) Install the cartridge. (P. EN37)
 - 2) Connect the power plug.
 - 3) Run water through the Alkaline Ionizer for about 3 minutes.
- If you are not going to use the Alkaline Ionizer for a month or more, the water inside the cartridge may have gone bad so it is recommended that you replace the cartridge.

Automatic Electrode Cleaning

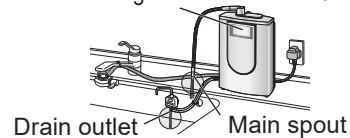
This operation automatically removes the calcium deposits on the electrode plates inside the main unit.



Note

- Water may drip or trickle from the main spout during automatic electrode cleaning: this is normal and does not indicate any trouble.
- Even after the “Electrode cleaning” display has stopped blinking, water may still come out of the drain outlet.
- Automatic electrode cleaning is not performed while the Continue lamp is lighted.

“Electrode cleaning” blinks for about 10 seconds.



- Do not turn off the water supply until automatic electrode cleaning is completed.
- Do not use the water which comes out of the main spout or drain outlet. Start using it after the buzzer has beeped three times.

When the Power or Water Supply is Cut Off

■ When the power supply is cut off

- Turn off the faucet if the power is cut off while the Alkaline Ionizer is being used.
- Purified water comes out of the main spout if water is run through the Alkaline Ionizer while the power is off.
- After the power is restored, the Alkaline Ionizer can be used again as usual. (After the power comes back on, the “Alkaline 1” (New Users) setting is automatically restored.)
- Even when the power has failed, the settings establishing in the setting mode will not be lost.

■ 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 “Unpurified” or “Shower”, 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 if water with air or turbidity is run through the Alkaline Ionizer.)

Q&A

Before use

Q Isn't it possible to use underground water for the Alkaline Ionizer?

A Underground water cannot be used.
The quality of underground water is unstable, so please use the tap water.

Q What is the point of the effects that the properties of source water (tap water) have on the water produced by the Alkaline Ionizer?

A Consult the table below.
The water obtained using the Alkaline Ionizer may not be sufficiently alkaline if the water has a high carbonic acid content.
In a case like this, boil the alkaline ion water to remove the carbonic acid and obtain the intended alkalinity. Also, in areas where the hardness of water* is high, the water may be turbid and white.

- With underground water or source water containing underground water, set the alkalinity to "Stronger" using the "pH fine adjustment" since alkalinity may be hard to obtain when using the Alkaline Ionizer.

	Coastal areas, islands	Hot spring areas	Water with a high concentration of carbonic acid (underground water)	Hard water	Soft water
Properties of source water	Salt water may be mixed in with the source water.	The source water contains sulfur so it tends to be acidic.	Carbonic acid gas is mixed in with the source water which tends to be acidic; the water has a high concentration of minerals so it is easier for electricity to be conducted.	The water has a high concentration of minerals so it is easier for electricity to be conducted.	The water has a low concentration of minerals so it is difficult for electricity to be conducted.
Properties of electrolyzed alkaline ion water	Tends to more alkaline.	Tends to make alkaline ion water more neutral due to the sulfate ions.	Tends to be more neutral due to the carbonic acid gas.	Tends to more alkaline.	Tends to less alkaline.
Points on using alkaline ion water	Use the "Milder" setting for the alkalinity.	Use the "Stronger" setting for the alkalinity. Reduce the flow of water at the faucet so that only a small volume of water is run through the Alkaline Ionizer.	Use the "Stronger" setting for the alkalinity. Reduce the flow of water at the faucet so that only a small volume of water is run through the Alkaline Ionizer.	Use the "Milder" setting for the alkalinity.	Use the "Stronger" setting for the alkalinity. Reduce the flow of water at the faucet so that only a small volume of water is run through the Alkaline Ionizer.

*: **Hardness of water:** Whether water is classified as hard or soft depends on the concentration of the calcium and magnesium in the water.

During use

Q I just drank some acidic water by mistake. It is OK?

A Small quantities (a glassful or so) will not cause any problems.
However, you should not keep drinking acidic water.
If you have drunk large quantities by mistake and do not feel well, consult a doctor.

Q Will the Alkaline Ionizer remove lead (soluble lead) from the water?

A Yes, it will.

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

A This figure represents the total time that electrolysis can be performed by the electrolyzer, and it means that the electrolyzer will last for about 7 years when the Alkaline Ionizer is used for 20 minutes a day. The electrode plates are worn down by the electricity passing to the electrolyzer. If the "H31" code appears on the display, it means that the electrolyzer has come to the end of its service life. Ask your dealer to replace the electrolyzer.

Continued on next page

EN41

Q&A (continued)

Q What should I do when I'm not going to use the Alkaline Ionizer for a prolonged period (more than a week or so as a general guide)?

A See P. EN39.

Q Do I leave the Alkaline Ionizer's power on when I won't be using the Alkaline Ionizer?

A Leave the power on even while you're not using the Alkaline Ionizer.
One reason is so that the electrodes need to be automatically cleaned. Another reason is that the volume of all the water which has run through the Alkaline Ionizer will not be totalized if the Alkaline Ionizer is used with its power off and, as a result, the cartridge life will not be displayed correctly.

Q What are the proportions of the water that comes out of the main spout and the water that drains out of the Alkaline Ionizer?

A See P. EN51.

Q What's the maximum temperature of the hot water that can be run through the Alkaline Ionizer?

A You can use hot water up to 35 °C. (P. EN23)
When you set the bypass selector on "Unpurified" or "Shower", you can use hot water up to 80 °C.

Q Why has the "U25" code (end of cartridge life due to clogging) appeared on the LCD display before the general guideline for when to replace the cartridge has appeared?

A "U25" will also appear when the volume of water passing through the Alkaline Ionizer or its pressure has dropped. (P. EN35 ~ EN36)
Check whether the water volume has dropped because of a reduction in water pressure or whether the water supply hose is bent or flattened. Also, the cartridge may already be clogged due to the kind of water source used, in which case replace the cartridge.

Q Why does the weak acidic water have an odor (it smells like swimming pool water)?

A It's because weak acidic water contains a lot of hypochlorous acid. There's no problem if you use it as is.
Electrolysis causes the chlorine ions in the water to collect in weak acidic water, forming hypochlorous acid.

Q Will I get noise in my radio if I put a radio near an Alkaline Ionizer?

A Yes, you may. If so, move the radio away from the Alkaline Ionizer.

Alkaline ion water

Q I'm a new user of alkaline ion water. What steps do I need to take?

A If you're a new user, use the Alkaline Ionizer at the "Alkaline 1" (Drinking water for new user) setting first. Use small volume (1 to 2 cupfuls) every day for about two weeks to get used to alkaline ion water. Then change the setting to "Alkaline 2" (Drinking water for Experienced user) setting or "Alkaline 3" (Drinking water in daily life).

Q Is it ok to take a medication with the alkaline ion water?

A 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.

Q What should I do if I get diarrhea or a rash after I start drinking alkaline ion water?

A Stop drinking alkaline ion water, and consult a doctor. While consulting the doctor, say that:

- The alkaline ion water you've been drinking has more calcium, magnesium, sodium, potassium and other minerals than tap water.
- The water you've been drinking has an alkalinity with a pH level of 8 to 9 (at the New Users setting).

Q I have kidney trouble. Is it ok for me to drink alkaline ion water?

A Consult a doctor before drinking alkaline ion water. While consulting the doctor, say that:

- The alkaline ion water you are thinking of drinking has more calcium, magnesium, sodium, potassium and other minerals than tap water.
- The water you are thinking of drinking has an alkalinity with a pH level of 9.5 or so.

Q How much calcium is contained in alkaline ion water?

A Due to electrolysis, there are 20 to 30% more calcium ions in alkaline ion water than in the source water.

Q How long do the alkaline ion water and purified water “keep”?

A Use it within 24 hours 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.

Q Can I use alkaline ion water to make ice?

A Yes, you can. 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.

Q What else can I do with alkaline ion water besides drinking it?

A You can use it for cooking, making rice, making tea or coffee just as you would with regular water. (P. EN18)

Q What is the white powder that’s deposited on the inside of the kettle and thermos flasks?

A It’s 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.

Q What is the white stuff that floats in the water which is produced when ice made using alkaline ion water has melted?

A 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.

Q When I use alkaline ion water to cook rice, the rice becomes sticky. What can I do about this?

A The rice may be sticky or yellow depending on the amount of water and the type of rice and rice cooker used. Either reduce the pH (hydrogen ion concentration) level of the alkaline ion water or use the Alkaline Ionizer at the “Purified Water” setting.

Q What kind of water should babies be drinking?

A Water produced at the “Purified Water” setting is recommended for babies. As babies are weaned, start using alkaline ion water gradually with the “Alkaline 1” (Drinking water for new user) setting.

Cartridge

Q I’ve been using the cartridge for over a year and the replace cartridge display has still not appeared. Does this mean I don’t have to replace the cartridge?

A You should replace the cartridge. Although it has seen less use and its filtering performance is still satisfactory, its activated carbon may deteriorate rapidly due to changes in the water quality or other factors so replace it after using it for a year.

Q I want to replace the cartridge. What type should I use?

A Use the cartridge with the TK-AS45C1-EX model number.

Acidic water

Q What is the pH level of the acidic water which comes out of the acidic water spout while alkaline ion water is coming out of the main spout?

A See P. EN51.

Error Code

When one of the following codes appears on the LCD display, take the suggested action described below. If a code from **H31 to H39** has appeared, do NOT attempt to disassemble and repair the Alkaline Ionizer yourself, but contact your dealer.

Error code	Cause and remedial action
U21 • U27	<ul style="list-style-type: none"> Depending on the water quality and environment, electrolysis may be suspended in order to protect the Alkaline Ionizer. (Purified water will come out of the main spout.) → Turn off the faucet, wait about 3 minutes, and then resume use.
U22 • U23	<ul style="list-style-type: none"> Depending on the water quality and environment, electrolysis may be suspended in order to protect the Alkaline Ionizer. (Purified water will come out of the main spout.) → Turn off the faucet, discontinue use, and wait about 30 minutes. (Depending on the water quality and environment, you may have to wait more than 30 minutes.)
U25 <ul style="list-style-type: none"> This appears alternately with the "Replace Cartridge" message. 	<ul style="list-style-type: none"> The cartridge has reached at the end of its service life due to clogging. (The water flow does not exceed 1.2 liters/minute.) → Replace the cartridge after checking water flow shortage due to decrease in water pressure, bend or collapse of the hose.
U26 <ul style="list-style-type: none"> This appears alternately with the "Replace Cartridge" message. 	<ul style="list-style-type: none"> The total run-through volume of water serving as the guideline for cartridge replacement (12 000 liters) has been exceeded. → Replace the cartridge. (P. EN37 ~ EN38)
U28	<ul style="list-style-type: none"> This is the electrolyzer service life warning. (It warns that the total electrolysis time has reached about 847 hours.) → Consult your dealer. The service life of the electrolyzer is about 850 hours. When the water supply is shut off and the power plug disconnected and then re-connected, the electrolyzer can be used for the remaining hours of its service life (for about 3 weeks at a daily rate of 10 minutes).
H31	<ul style="list-style-type: none"> The electrolyzer has reached the end of its service life. Total electrolysis time: About 850 hours (only the ion water production time and cleaning time) → Ask your dealer to replace the electrolyzer.
H32 ~ H39	<ul style="list-style-type: none"> The Alkaline Ionizer has failed. → Disconnect the power plug, and consult your dealer.

Troubleshooting

If you think that something is wrong with the Alkaline Ionizer, check out the following points before requesting repairs. If you decide that trouble has occurred, do NOT attempt to disassemble and repair the Alkaline Ionizer yourself, but contact your dealer.

- Sometimes suspected trouble is remedied by disconnecting the power plug and then re-connecting it.

■ When the LCD display shows the following:

Symptom	Check following point	Reference page
English is not displayed on the LCD.	<ul style="list-style-type: none"> ● This is because the English display mode has not been selected. → Take the steps to switch to the English display mode. 	EN19
English is displayed on the LCD.	<ul style="list-style-type: none"> ● This is because switching to the English display mode has been undertaken. → Take the steps to switch the display language, and return to the Chinese display mode. 	EN19
The displays in the setting and check modes are not in English.	<ul style="list-style-type: none"> ● The displays cannot be shown in English in the setting and check modes. (This is not a malfunction.) 	EN19
No display at all or LCD display is cleared suddenly	<ul style="list-style-type: none"> ● The display is cleared automatically when the Alkaline Ionizer is not being used. (This is not a malfunction.) 	EN19
	<ul style="list-style-type: none"> ● Is the power plug disconnected? → If it is, connect it. 	—
The “Preparation time” display blinks	<ul style="list-style-type: none"> ● This display appears for about 20 seconds when water runs through the Alkaline Ionizer immediately after installation or cartridge replacement. → The air inside the cartridge is being expelled. Keep running the water for 3 or 4 minutes. 	EN9 EN37
The “Electrode cleaning” display blinks	<ul style="list-style-type: none"> ● The electrodes are being automatically cleaned. → Keep running the water for about 15 seconds. 	EN40
The display changes to “Alkaline” after “Alkaline 4 (Strongly Alkaline)”, “Weak Acidic” or “Purified Water” was used	<ul style="list-style-type: none"> ● When the faucet is turned off after the Alkaline Ionizer is used at the “Alkaline 4 (Strongly Alkaline)”, “Weak Acidic” or “Purified Water” setting, the “Alkaline” setting is automatically restored. (This is not a malfunction.) 	EN21
The display does not return to “Alkaline” after the Alkaline Ionizer was used at the “Purified Water” setting	<ul style="list-style-type: none"> ● Has “OFF” been selected for “Alkaline priority” so that the Alkaline setting will not be returned? → Set “Alkaline priority” to ON. 	EN32
	<ul style="list-style-type: none"> ● Does this happen while the Continue lamp is lighted? (This is not a malfunction. The “Alkaline” setting will be returned after about 10 minutes.) 	EN21
When the water flow is reduced at the faucet during use, the display suddenly changes to “Cartridge life”	<ul style="list-style-type: none"> ● This happens when the water flow is reduced too much or the flow is diminished due to a change in the water pressure. → When using the Alkaline Ionizer at the “Alkaline 4 (Strongly Alkaline)”, “Weak Acidic” or “Purified Water” setting, press the water quality selector button again, turn on the faucet, and adjust the flow. 	EN22

Continued on next page

Troubleshooting (continued)

■ When the LCD display shows the following: (continued)

Symptom	Check following point	Reference page
“Replace cartridge and press switch display for about 3 seconds.” message appears on the display	<ul style="list-style-type: none"> The flow has diminished because of cartridge clogging or some other reason. <ul style="list-style-type: none"> → Disconnect the power plug and then re-connect it. If operation is continued and the “U25” code appears, replace the cartridge. 	EN35
The “U25” or “U26” code is not cleared even after the cartridge is replaced	<ul style="list-style-type: none"> Have you forgotten to reset the cartridge life? <ul style="list-style-type: none"> → Refer to step 3 in the procedure of “Replacing the cartridge”, and reset the cartridge life. Did you reset the cartridge life with the power plug disconnected? <ul style="list-style-type: none"> → Connect the power plug, and then reset the cartridge life. 	EN37
The “U26” code does not appear even after the time (approx. 1 year) representing the guideline for when to replace the cartridge has passed	<ul style="list-style-type: none"> Has the Alkaline Ionizer seen less use so that the total run-through volume of water serving as the guideline for cartridge replacement (12 000 liters) has not been reached yet? (This is not a malfunction. Check the cartridge life display.) <ul style="list-style-type: none"> Although the filtering performance is still satisfactory, the cartridge’s activated carbon may deteriorate rapidly due to changes in the water quality or other factors so replace it after using it for a year. 	EN35 ~ EN36

■ Is this a malfunction?

Symptom	Check following point	Reference page	
Drain outlet	Water comes out after the faucet has been turned off	<ul style="list-style-type: none"> The water inside the outlet pipe is draining off. 	EN21
	No water comes out from the acidic water spout when using other than purified water	<ul style="list-style-type: none"> Are the acidic water and drain hoses bent or flattened? If water keeps running, it may cause malfunction. Also It can not electrolysis correctly. Has the “Reduce flow” appeared on the LCD display? → Reduce the water flow at the faucet slowly until the message is cleared. 	EN13 ~ EN15 EN22
Acidic water spout	No water comes out when the Alkaline Ionizer is used at the “Alkaline” or “Alkaline 4 (Strongly Alkaline)” setting	<ul style="list-style-type: none"> Are the acidic water and drain hoses bent or flattened? → Straighten out the hoses. Have the acidic water and drain hoses been connected correctly? → Check the connection of the hoses to the acidic water stand. Has the “Reduce flow” appeared on the LCD display? → Reduce the water flow at the faucet slowly until the message is cleared. 	EN13 ~ EN15 EN22
	Water is leaking from a place other than the selected spout	<ul style="list-style-type: none"> The build-up of calcium or other minerals inside the bypass selector may be to blame. → Obtain some citric acid from a pharmacy, dissolve 50 g in one liter of water, and after immersing the bypass selector in the solution for about 12 hours, rinse with water. 	—

Symptom	Check following point	Reference page	
Other Very little or no water is discharged from the Alkaline Ionizer ● “Flow reduced”, “Too much tightened at the faucet?” or “Bent hose?” displays alternately.	<ul style="list-style-type: none"> ● Has the flow at the faucet been reduced too much? → Open up the faucet. ● Is the water pressure too low? → Open up the faucet all the way and increase the water flow at the main water supply. ● Is the filter of the bypass selector clogged? → If it is, clean the filter. ● Has the cartridge been installed properly? ● Has the water supply been cut off? ● Is the water supply hose bent or flattened? 	EN29	
		EN34	
		EN37 ~ EN38	
		EN40	
		EN13 ~ EN15	
		If the display appears again even after taking the above action, the flow has diminished because of a clogged cartridge or other such reason. Replace the cartridge.	—
	Much water comes out “Reduce flow” has become more likely to be displayed	<ul style="list-style-type: none"> ● 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. 	—
The water comes out from the main spout is warm.	<ul style="list-style-type: none"> ● When water starts to run through the Alkaline Ionizer, water which was kept at room temperature while no water was flowing to the Alkaline Ionizer or water warmed by the heat inside the Alkaline Ionizer may come out. → Allow the water to keep flowing for about 0.6 liter (about 15 seconds) before uses. 	—	
The buzzer does not sound even when using the “Weak Acidic” setting	<ul style="list-style-type: none"> ● Has “OFF” been set for the “Weak acidic buzzer” setting? 	EN31	
The water produced by the Alkaline Ionizer has an odor or unpleasant taste or is turbid	<ul style="list-style-type: none"> ● The ability of the cartridge to remove odors, unpleasant tastes and turbidity has deteriorated. → Replace the cartridge. 	EN37 ~ EN38	
The pH level of the water produced by the Alkaline Ionizer is not within the rough pH level range	<ul style="list-style-type: none"> ● The pH level may be a little high when a new cartridge is used (for the first week or so). (This is not a malfunction. Measure the pH level again after a week.) 	—	
The pH level of weak acidic water is neutral	<ul style="list-style-type: none"> ● 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 level (neutral) in the pH Chart. → Test the water coming out of the drain outlet while using the “Weak Acidic” setting, and if it is 10 to 11, it means that the pH level for weak acidic water is 6.5 or so. 	—	

Continued on next page

Troubleshooting (continued)

■ Is this a malfunction? (continued)

	Symptom	Check following point	Reference page
Others	Sounds are heard from the unit after the faucet has been turned off	<ul style="list-style-type: none"> These sounds are made by the water inside the unit draining off. 	–
	There is a big difference between the water output display and actual output of water	<ul style="list-style-type: none"> Are the acidic water and drain hoses bent or flattened? → If they are, straighten them out. Is the height difference between the main spout and acidic water spout more than 10 cm and under 50 cm? → Adjust the height difference to a value ranging from 10 to 50 cm. 	EN13 ~ EN15
		<ul style="list-style-type: none"> Have you set the height difference between the main spout and acidic water spout? → Set the height difference. 	EN27
		<ul style="list-style-type: none"> If there is still a big difference between the water output display and actual output of water even after taking the above action, follow the steps of “Correcting the water output display”. 	EN28
	When a dryer is used, sounds are heard from the unit	<ul style="list-style-type: none"> Sounds may be heard with some dryers. (This is not a malfunction.) 	–
	The pH level of alkaline ion water does not indicate alkalinity	<ul style="list-style-type: none"> Is “Alkaline” set for the water quality (or has “Weak Acidic” or “Purified Water” been set)? → Switch to “Alkaline” using one of the water quality selector buttons. 	EN20
		<ul style="list-style-type: none"> Depending on the water quality, the water’s alkalinity may not be indicated (because of the effects of carbonic acid in the water). (This is not a malfunction. Using “pH fine adjustment”, set the alkalinity to “Stronger” for use.) 	EN24 EN41
		<ul style="list-style-type: none"> Are the acidic water and drain hoses bent or flattened? → If they are, straighten them out because otherwise electrolysis will not be performed properly. 	EN13 ~ EN15
	It is becoming difficult for the pH level to rise	<ul style="list-style-type: none"> Calcium has built up inside the Alkaline Ionizer, causing a deterioration in the electrolytic performance. 	–
	The weak acidic water has an odor (it smells like swimming pool water)	<ul style="list-style-type: none"> Electrolysis causes the chlorine ions in the water to collect in weak acidic water, forming hypochlorous acid. (This is not a malfunction.) 	EN42
White suspended matter is mixed in with the alkaline ion water	<ul style="list-style-type: none"> This is calcium which has built up inside the Alkaline Ionizer. (It can be used.) 	–	
Not much water comes out of the Alkaline Ionizer after the cartridge has been replaced	<ul style="list-style-type: none"> Did you flow water for 3 to 4 minutes? (This is necessary to expel air inside the cartridge.) 	EN37	
Water drips or trickles out of the main spout even when the water is cut off	<ul style="list-style-type: none"> The water inside the outlet pipe is being expelled. (This is not a malfunction.) 	EN21	

EN48

■ When there is a water leak

Place where the water leaks	Check following point	Reference page
Area where the bypass selector is connected	<ul style="list-style-type: none"> ● Has the bypass selector been installed on the faucet securely? → If not, install it securely. 	EN10 ~ EN12
	<ul style="list-style-type: none"> ● Have the parts inside the bypass selector been inserted properly? → If not, insert them properly. 	EN34
Area where the water supply hose is connected	<ul style="list-style-type: none"> ● Has the water supply hose been connected securely to the bypass selector? → Insert the hose as far as it will go, and tighten it using the hose fastening nut. 	EN14
Area where the outlet pipe is connected	<ul style="list-style-type: none"> ● Has the outlet pipe been connected to the unit securely? → If not, screw it in securely until it will go no further. ● Did you install the gasket? Or is the gasket twisted? → Install the gasket properly. 	EN15
Top of the unit	<ul style="list-style-type: none"> ● Has the cap been installed securely on the unit? 	EN39
Bottom of the unit	<ul style="list-style-type: none"> ● Has the cartridge been installed securely? → If not, install it securely. ● Depending on the temperature and humidity conditions, water formed from condensation may collect inside the unit. (This is not a malfunction.) 	EN37 ~ EN38
Faucet area	<ul style="list-style-type: none"> ● Is the faucet gasket old? → Call in a plumber. ● Is the faucet (insulating cap, etc.) cracked? → Call in a plumber. 	—

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-AS45C1-EX

For use with large faucet

Large-diameter Faucet Fitting (inside diameter 32.5 mm)

Model No.: P-06JRC

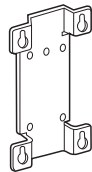
- For faucets whose end diameter is 24 ~ 32 mm

Wall mounting bracket

Model No.:

P-A3303ZEX

Used when mounting the unit on a wall



CAUTION

- **If you want to install the unit on a wall, ask an authorised dealer or service personnel to do the job.**
Installing the unit yourself may cause the unit to fall and result in an accident.
- **The location where the unit is to be installed must be able to support a weight of over 6 kg.**
If the installation location does not have enough strength to support the unit, the Alkaline Ionizer may fall, resulting in an accident and kitchen damage.

EN49

Specifications

Rating	220-240 V ~ , 50 Hz, 0.8 A	
Power consumption	Approx. 130 W (approx. 1 W during standby)	
Main unit	Dimensions	Approx. 200(W) × 123(D) × 318(H) mm
	Weight	Approx. 4.1 kg (approx. 4.6 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)
		3.0 L/min. (at 200 kPa water pressure)
	Electrolysis capability selection	Alkaline: 4 levels; weak acidic: 2 levels
	Continuous operation capability	Approx. 30 minutes at room temperature (approx. 10 minutes for Stronger at Alkaline 3 (Drinking water in daily life), Alkaline 4 capability (Strongly Alkaline), Weak Acidic) (Note 2)
	Electrolyzer life	Approx. 850 hours cumulative (ion water production time, cleaning time only)
Electrolytic cleaning	Auto cleaning method (cleaning time: approx. 35 seconds, waste water drain time: approx. 15 seconds)	
Purified water output volume	2.5 L/min. (at 100 kPa water pressure)	
Filtration flow volume	2.5 L/min. (at 100 kPa water pressure)	
Cartridge Installed In the unit	TK-AS45C1-EX	
Purification capacity (Note 1)	Free residual chlorine	12 000 L (Note 3)
	Turbidity	12 000 L (Note 4)
	Total trihalomethane	12 000 L (Note 3)
	Chloroform	12 000 L (Note 3)
	Bromodichloromethane	12 000 L (Note 3)
	Dibromochloromethane	12 000 L (Note 3)
	Bromoform	12 000 L (Note 3)
	Tetrachloroethylene	12 000 L (Note 3)
	Trichloroethylene	12 000 L (Note 3)
	1,1,1-Trichloroethane	12 000 L (Note 3)
	CAT	12 000 L (Note 3)
	2-MIB (mold smell)	12 000 L (Note 3)
	Soluble lead	12 000 L (Note 3)
Substances other than above that can be removed	Iron (particulate form)	Can be removed (Note 5)
	Aluminium (neutral)	Can be removed (Note 5)
	Geosmin (mold smell)	12 000 L (Note 5)
	Phenols	12 000 L (Note 5)
Guide for time to replace cartridge	Approx. 1 year (Note 6)	
Filter material	Non-woven fabric, granular activated carbon, ceramic, powdered 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	
Overheating protection devices (inside isolation transformer)	Overheating protector (automatic resetting type, activated at temperature of 120 °C)	
	Thermal fuse (activated at temperature of 145 °C) × 1	

EN50

- 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, acidic water spout and drain outlet is given as the run through water volume and daily volume of water used.

Note 1: The water which can be used as alkaline ion water and weak acidic water is equivalent to about 80% of the filtration flow volume.

Note 2: This period may be shorter depending on the water quality and usage environment.

Note 3: This value is for a removal rate of 80% based on JIS S 3201 tests.

Note 4: This value is for a filtration flow volume of 50% based on JIS S 3201 tests.

Note 5: 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). Note that the removal of iron (particulate form) and aluminum (neutral) are not stipulated as part of purification capacity.

Note 6: This period applies when 30 liters of water are used a day. If 60 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.


■ Proportions of water from the main spout and drain outlet


	Ratio
Alkaline 1/2/3	4:1
Alkaline 4 (Strongly Alkaline)	4:1
Weak Acidic	4:1

■ pH level of acidic water from acidic water spout

Water quality	pH level of acidic water
Alkaline 4 (Strongly Alkaline)	2.8 to 3.5 (pH3 or so when the "pH3" water quality indicator has lighted)
Alkaline 3	3.0 to 4.5
Alkaline 2	4.0 to 5.5
Alkaline 1	5.0 to 6.5

- The pH level differs depending on the quality and volume of the water and pH fine adjustment level.

Inspection	Check the Alkaline Ionizer you've been using for years!	
	<p>Are any of the following symptoms applicable?</p>	<ul style="list-style-type: none"> • 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. <p>▶</p> <p>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.</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，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 <p>▶</p> <p>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。</p>

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