



Read for Safety

Cautions



In case an unit is carelessly drowned,
immediately plug out and lift up the unit
from the water.

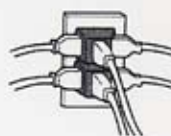
Possible cause of an electric shock.



Prohibited

Avoid heavy electrical load on an electric
wall-outlet or distributing tool.
Do not apply a different AC voltage to an
unit.

Possible cause of a fire due to heat incurred.



Prohibited

Do not use your wet-skin hand to plug in
or out

Possible cause of an electric shock.



Completely plug in the power cord for
good fitting

Possible cause of a fire or electric shock due to
improper plugging in.
Do not use a stripped plug or loose-fitting.



Prohibited

Do not use the unit for other unidentified water than city water or
drinkable water.

Possible drinking unqualified water Do not use undrinkable water as source water.

In case your unit gets disordered, please call our A/S center or sales agent (don't try to repair by yourself).

Cautions



Do not disassemble, repair and/ or remodel by yourself.

Disassembling prohibited.
Possible cause of a fire and electric shock.



Keep the power plug clean.
Periodically brush away dust attached to plugs.

Too much dust on the plugs would possibly cause a fire due to damp and bad insulation.

- Pull out the power plug to clean it with dried fabric.



Prohibited

Do not give damage to electric wire and power plug.

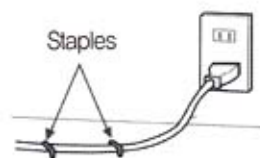
Do not strip, transform, place close to heating tools, distort, push or pull up with tension, press with heavy things or make a bundle etc.
Possible cause of a fire, electric shock or short circuit.



Prohibited

Do not fit a power cord with a staple or so.

Prohibited.
Possible cause of a fire or electric shock due to a peeled-off cord.



Plug out the power cord during cleaning the unit.

It is for preventing a possible electric shock.





Read for Safety



Cautions



Remove out any water remained inside of an unit for optimum operation of an unit.
Flow out for 2-3 minutes



No Fire

Do not place the pH test reagent close to flammables

Possible cause of a fire due to ignition of pH test reagent.



Do not use an Aluminum-made(weak against alkaline water) and Copper-made(weak against acidic water) receptacle.

A metal receptacle makes ionized water lose it's activation condition and will be eroded.



Prohibited

Do neither drink pH test reagent nor attach it to eyes and body (especially keep it away from children).



Prohibited

Do not put anything on a top of the unit.
Possible cause of unit damage



⚠ Cautions



Prohibited

Do not drink ionized or purified water that was generated long time ago and has been kept long time.

Water condition can be deteriorated because germicidal Cl in output water is removed out.



Prohibited

Do not have hot water flow into the unit.



Prohibited

Do not sprinkle water on the unit or wash the unit with water.

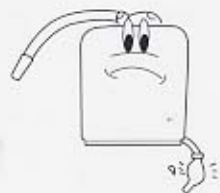
Possible cause of an electric leakage or electric shock.



Prohibited

Do not close up, bent, twist or press the outlet hose.

Possible cause of water leakage, different pH output or unit disorder.



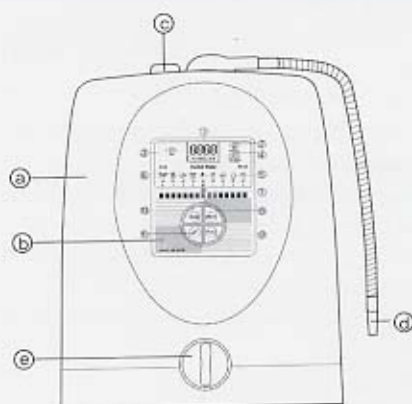
Please consult with our sale agent or installing man for wall – mounting installation.

If wall-mounting installation is made by a customer, please install firmly so that the unit cannot drop down.

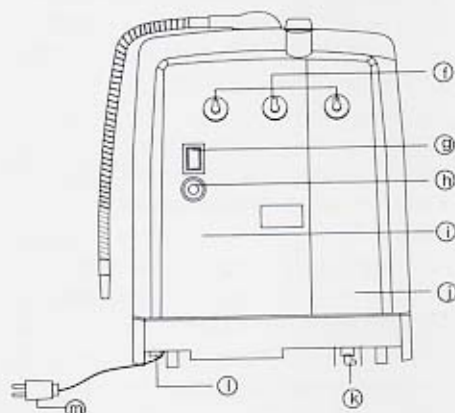


External Feature & Function [AK-4000]

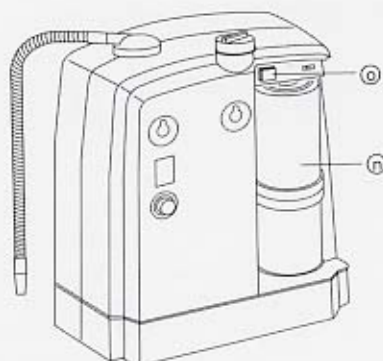
Front



Back - I



Back - II



Control Panel



④ Main Body

External case embodying the product unit and protecting the internal components.

⑤ Controllers—Integrated Panel

Each named controller integration to control unit operation and indicate operation condition.

⑥ Calcium—Additive Container Cab

For users desiring additional calcium ion solution in alkaline ionized water by using a pelletized calcium compound. Each load will last approximately 4 weeks.

⑦ Alkaline Water Output Nozzle

Easily to dispense alkaline ionized water into an intended container.

⑧ Water—Supply Valve

To start / stop unit operation by opening/closing water inflow (automatic power-on/off), or to adjust a inflow quantity.

⑨ Holes for Wall-Mounting

The product unit can be easily mounted onto wall—studs

⑩ Main Power Switch

The switch is for turning on/off the main power.

⑪ Fuse Holder

Safety device for preventing a possible overload.

⑫ Back—Cover Panel

Do not open the panel. Contact our local dealer in case of malfunction of the unit.

⑬ Filter Cover

Filter cartridge cover

⑭ Acidic Water Output Port

Output pathway of acidic water generated during ionization process.

⑮ Tap Water Input Port

Tap water input connection.

⑯ AC Power Cord

Power connection cord.

⑰ Fliter

Water filtration.

⑱ Reset Button

To reset the filter life indicator to return to the first count upon filter replacement.

① Filter Life Indicator

To show a remaining filter life. Users can easily determine timing of filter replacement.

② Low Pressure LED

To indicate short tap water inflow into the unit. Flickering signal appears.

③ Ionized Water

To indicate generation of acidic and alkaline water

④ Hot Water Warning LED

To warn hot water (+ 50°C) inflow into the unit. Flickering signal and warning sound.

⑤ Selected Alkaline pH Level Indicator

The lamps showing a selected alkaline pH level.

⑥ Selected Acidic pH Level Indicator

The lamps showing a selected acidic pH level.

⑦ Water—Purifying Lamp (LED)

The Lamp indicating water—purifying function selected.

⑧ Alkaline Water Button

For selecting an alkaline water output.

⑨ Purified Water Button

For selecting an filtered water output.

⑩ Acidic Water Button

For selecting an acidic water output.

⑪ Melody Button for melody—on & off function



Installation Accessories & Procedures

Applicable Diverters

- Tap-attaching adaptor
- Hole and non-hole nipples
- Auxiliary middle valve
- Tap-attaching diverter



Accessories

- pH reagent, Test tube



- Colorimetric paper



- Hose



- Guide paper



⚠ Pre-caution for installation

Water tap of horizontal rotation or single lever type

- Tap-attaching adaptor

Nut-fixation type : Insert the adaptors to the end of the tap and then screw the nuts tightly.

Bubble-making ring : Take away a ring from the end of the existing tap and insert bubble-making ring to the end of the adaptor.



- How to use the diversion adaptor connected to the faucet (tab).

Slowly turn the diverter valve to the left for direct water flowing into sink and slowly turn the diverter valve to the right for source water flowing into the ionizer unit.

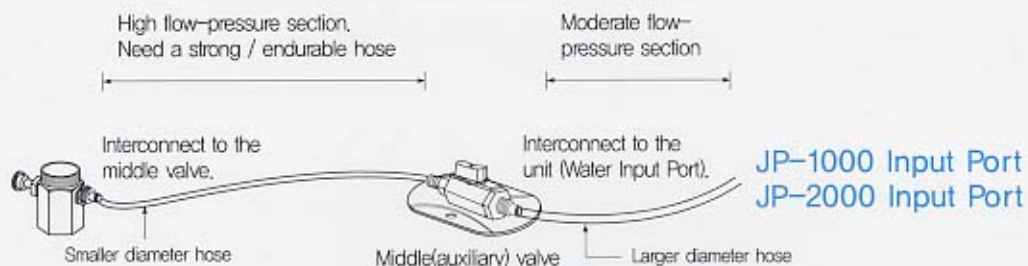
Source waer



Tap waer

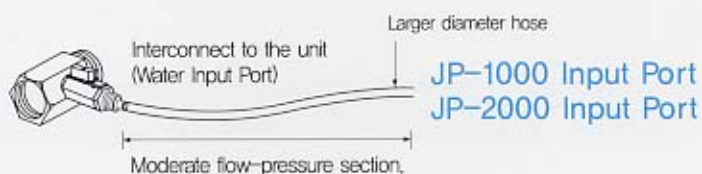
Before installation, please check if the diverter accessories are accompanied.
if any question, please contact our sales agencies or distributors.

Case 1 of Water Line Connection Diverter

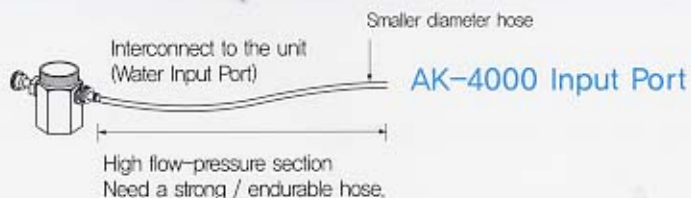


Case 2 of Water Line Connection Diverter

Direction of connection to water line



Case 3 of Water Line Connection Diverter



We provide with only 1 diverter out of the various ones.
if a customer needs other kind of diverter, then he should purchase it separately.



Installation Procedures

In case of wall-mounting location

- 1 Vertically attach the provided installation guide paper on the wall after slightly pasting water over the guide paper.



- 2 Nail down the studs on wall stud position as shown in the guide paper (1cm length of the studs should be remained)

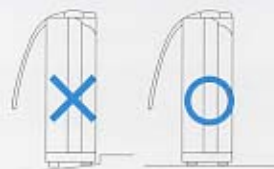


- 3 Mount the ionizer unit on the wall by using the Wall-Mount Holes on the back side of the ionizer unit.



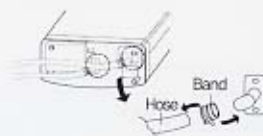
In case of kitchen sink or sink stand location

- 1 Horizontally locate the unit on a proper conventional place.

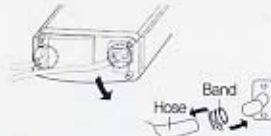


- 2 Connect a hose to Tap Water Input Port and to a diverter and then firmly fasten each end of a hose by fitting bands/clamps)

● JP-1000



● JP-2000



● AK-4000



- 3 Connect a hose to the Acidic Water Output Port in order for acidic water to be discharged down to a sink drain or be collected into a receptacle for intended usage.



- 4 In case an Acidic Water Output hose is steeped in sink water due to it's too long length, then polluted water may possibly be flowed into a hose.



In case it is steeped in an acid water receptacle, then an ionized water output quantity may possibly be inconstant. Therefore, an user should determine the most proper length of the hose. Do not let the acidic water hose be lifted up to the height of the unit (when an unit stops its operation, no outflow will be from the unit).

How to operate the unit

- 1 Insert the Alkaline Water Output Nozzle, rotating it in the right direction.



- 2 Slowly turn on the diverter valve (JP-1000 & JP-2000) or the Water-Supply Valve (AK-4000) to check any leakage from joint part of Tap Water Input Port.

- 3 Insert a plug into a wall outlet.



- 4 Turn on main power switch.



- 5 Slowly rotate the diverter valve or Water-Supply Valve to the left for source water flowing into the unit

● JP-1000 ● JP-2000

Source water



● AK-4000



- 6 The first stage cleaning of electrolysis cell will proceed for about 10 seconds, with ringing a melody (during automatic cleaning, alkaline water comes from Acid Water Output Pot and acidic water from Alkaline Water Output Port)/



Once an user pushes the chosen one of pH Level Selection Buttons, the corresponding Alkaline Strength Level LED will be on when alkaline water is selected, and the corresponding Acidic Strength Level LED will be on when acidic water is selected.



How To Have Water Output

How to generate alkaline ionized water ...! Do not drink for taking a medicine

- 1 Turn on the diverter valve or the Water-Supply Valve, wait for the first self-cleaning stage and then push Alkaline Water Button.



- 2 If precedent operation was made at pH Level 4, then pH Level 4 LED is on at this time too, and at the same time alkaline water comes out of Alkaline Output Nozzle and acidic water comes out of Acidic Output Hose as well.



- 3 If an user wants to change a pH strength level, just push the intended pH Selection Button.

Level 4	Alkaline pH : 10.0 approx.
Level 3	9.5 approx.
Level 2	9.0 approx.
Level 1	8.0 approx.

- 4 If precedent operation was made at pH level 3 of alkaline, then this time operation is made at pH level 3 of alkaline too.

Obtainable pH value can be varied according to source water quality and water inflow pressure.

How to generate acidic ionized water

This function is for acidic water usage such as face (hand) washing or bathtub water after collecting a fair quantity of acidic water and simultaneously for automatic cleaning of electrolysis cell, ionizer unit's longevity can be much more extended if an user operates acidic water output for more than 5 minutes every 2~3 days (For cell-cleaning, Please use pH level 4 of acidic water).

- 1 Proceed with the 1st stage cleaning by opening the diverter valve or Water-Supply Valve, and then push the Acidic Water Button.



- 2 If precedent operation was made at pH level 4, pH level 4 LED is on, and at the same time acidic water comes out of Alkaline Output Nozzle and alkaline water comes out of Acidic Output Hose as well



- 3 If an user wants to change a pH strength level, just push the intended pH selection button (In case of acidic water operation, acid pH strength is low due to a relatively more quantity of acid water output. Reversely, alkaline pH strength is high)

How to stop unit's operation

1. Turn off the diverter valve or Water-Supply Valve.
2. Then the unit buzzes "Pphhik~" and at the same time will stop it's operation automatically. Subsequently, Filter Life Indicator and pH Level LED will be 'on' and sooner all function indicators will be 'off' in case of no re-operation

● JP-1000 ● JP-2000



● AK-4000



In the function of Acid Water operation, acidic ionized water comes out from alkaline output nozzle and alkaline ionized water from addicic water output port.

How to generate purified water ... Not electrolyzed

This function is not to ionize the tap water, but only to purify the tap water just like a water purifier.

- 1 Proceed with the 1st stage cleaning by opening the diverter valve or Water-Supply Valve, and then push the Purified Water Button



- 2 Water Purifying LED is on and purified water comes out from both Alkaline Water Output Port and Acidic Water Output Port.



Note

For the water-purifying function, an user may operate the unit with opening only the water-input valve even without turning on the Main Power Switch. In this case, however, the unit is unable to count the filter life (water quantity flowing thru a filter) by itself. No need to turn off the Main power Switch,



Purified Water's pH value might be pH7 or more than 8, according to source water's pH value.



How To Measure pH Value

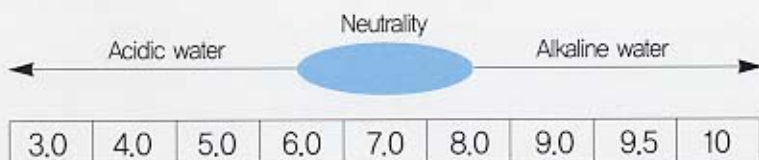
Comparative pH value measurement of alkaline ionized, acidic ionized and tap (city) water

Before you check pH value of a generated ionized water by the provided pH-measuring reagent, please choose and push your intended pH Level Selection Button (for example, strong alkali)

■ pH range desirable for usual drinking of ionized water : pH 8.0~ 9.5

Ionized water of more than pH 10.0 is not appropriate for drinking.

The resulted pH value of ionized water at the selected pH level can be slightly different every time subject to source water quality and water pressure being flowed into the unit.



Comparative pH value measurement

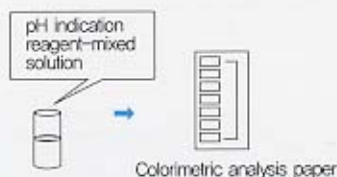
- 1 Fill up to 2/3 of each provided test tube or a container with alkaline ionized water, acidic ionized water and tap (city) water respectively.



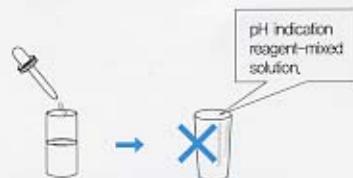
- 2 After putting one or two drops of pH indication reagent thereinto, shake the tube or container properly to mix up well.



- 3 Easily determine each pH value comparing the mixed solution color with the colorimetric analysis paper we provided you with.



- 4 Any water used for pH value test is not drinkable.



Keep the pH indication reagent in a dark and cool place.



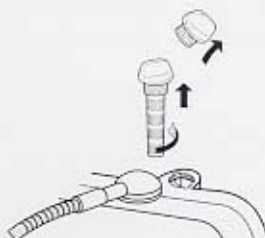
Calcium Additive

An user can additionally utilize calcium with the unit

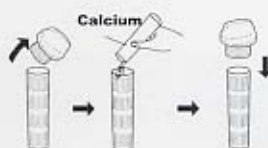
How to add Calcium into the unit

We provide with Calcium Additive separately at user's request and against user's payment.

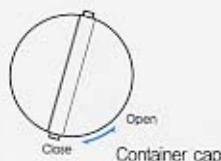
- 1 Turn off the water-input valve.
- 2 Take out (draw out) the calcium-supply container, rotating the calcium container cap in the left direction.



- 3 Separate the calcium container from the cap, abandon the remaining calcium therein, clean the container with water and put the calcium granules into it.



- 4 Finally put the calcium-supply container in the unit



The existing filter in the ionizer unit contains a calcium. If additional calcium is preferably needed, please use our supplying calcium pack by a separate purchase and follow the above procedures for additional calcium additon into the unit.



How To Replace the Water-purifying Filter

Timing of a filter replacement

Our ionizer units have the built-in digital function of automatically informing an user of timing of a filter replacement when filter life ends. At the time when the number in the filter life indicator reaches "9999" and flickers in itself, an user should replace the filter with new one.



Please replace the filter with new one even if the number appeared on the filter life indicator does not still reaches "9999", in case of the following operation condition

- Substantially poor output of water from the unit due to lots of pollutant impregnated in the filter caused by seriously polluted source water into the filter.
- In case any smell from output water is detected, which is caused by extremely polluted water inflow into the unit.
- When re-operate the unit after a substantially long time period interval of non-use.

How to replace the filter

Do filter replacement after shutting off water input into the unit

- 1** Pull and open the filter cover.
Push right-middle point of filter cover and pull the filter cover



- 3** Fit a new filter drum bottom into filter room bottom first, and push an upper end to insert thoroughly a new filter drum.
Fit a new filter drum in a right place and then push down a new filter drum in filter room to insert thoroughly a new filter.



- 2** Pick out the filter drum from filter room.
Push down the filter drum and pick it out.



Insert filter body firmly for O-ring not to be taken off.
Check if any leakage by opening the water input valve

- 4 In the main power-off condition, let tap water flow into the unit for 2~3 minutes.
After replacing with a new filter, initial output water appears to be dark-colored and impure-like. It is caused by an outflow of activated carbon corpuscles (fine particles, but not harmful for drinking)

- 5 Check any water leakage in the filter room.

- 6 Turn on the main power, and push the Reset Button to let the filter life number return to the count-commencing stage.

- 7 Close the filter room cover



Abnormal condition indicator during operation (JP-2000 • AK-4000)

1 Low pressure LED

- In case a tap water inflow into the unit is too weak, then the water flow sensor works and the Low Pressure LED will be on and flicker in itself.
- Increase / normalize a tap water inflow rate by opening the water-input valve further until the Low Pressure LED is off.
Appropriate hydraulic(inflow)pressure: 0.7kg/cm² ~ 5kg/cm². Appropriate water inflow rate : 2.5~3.0 Liters / minute.



No ionization in case of low inflow of water

2 Hot Water Warning LED

- If hot water of more than 50°C flows into the unit, unit operation will be automatically stopped to protect the filter and/or electrolysis cell. Simultaneously Hot Water Warning LED will be on and it beeps as an alerting sound.
- Immediately stop hot water input, let the unit have cold tap water for more than 10 seconds to make inflowed hot water cooler, and then the unit will automatically operate normally.
(Appropriate source water temperature : 15+/-5°C based on usual city water)
- For the time being, an inflowed hot water will come out, but everything will return to normalcy soon.





Usage of Ionized Water

For drinking purpose, please use alkaline ionized water

- 1 Moderate pH level for alkaline (AKW) and acidic water (ACW)/

		Alkaline ionized water(AKW)	Acidic ionized water(ACK)
Beginner's drinking	Child	Level 1	Level 1
	Adult	1	1
	Patient	1	1
	Dosage	2~3 cups / day	The hotter water, the better effect
Customary drinking	Child	Level 1~2	Level 2
	Adult	2~3	2~3
	Patient	2~4	3~4
	Dosage	Patient : 300cc~5000cc/day	The hotter water, the better effect



Rebound Symptom (Temporal negative symptom on healing process)

Alkaline water has the strong power to scavenge acidic wastes out of our body system and as a result, it will cause the following temporal sensitive reactions because a AKW-drinking beginner would have more frequent urination, evacuation and inspired perspiration etc.

However, such reactions are of a temporal symptom to recuperate the body system without any maleficence and thus the continuous drinking of ionized water is of no problem even during the following rebound symptom(s).

■ Skin eruption

Those who have allergic body, liver trouble and excessive medicine dosage would occasionally have skin eruption for up to 3 months from a AKW drinking start.

It is said that these people have a bad condition of capillary vessels.



■ Diarrhea

In case that those who have the weak stomach, serious constipation and decayed excreta caused by abnormal fermentation in bowels drink AKW, then they would occasionally have diarrhea for 3~7days.

In a week, such persons will have comfortable evacuation of fine normal excreta. The above mentioned temporal diarrhea results from bowel clearing. So, keep on drinking AKW at ease.



2 Utilization of various kinds of water from the ionizer unit.

Generated water	pH value	Usage
Strong alkali water (Strong AKW)	10.0	For Cooking preparation Good for extorting a bitter taste of vegetables. Shorten a cooking time by 1/2. Use for washing vegetables and for boiling foods, and the color of vegetables and foods get more lucid and clearer.
Alkali water (AKW)	9.5	Optimal for making a barely tea and an oolong tea. Can make teas softer with 1/2 less time than conventional water.
	9.0	To cook rice. To make teas.
	8.0	Suitable for a beginner with AKW
Purified water	7.0	For taking a medicine and admixing with powdered baby milk. Also for usual drinking
Acid water (AKW)	6.0	For skin care. Apply after face washing, bathing and shaving.
	5.0	
Strong acid water (Strong ACW)	3.0	For cleaning of electrolysis cell.

- 1~2 cups of AKW for empty stomach every mornig time and 1~2 cups before daily bedtime will bring a great efficacy.
Drink 2~3 cups of pH 8.0~9.0 AKW everyday and increase a drinking quantity with higher pH strength as your body gets assimilated with it.



Particular Usage of Alkaline Ionized Water [AKW]

For cooking rice

Soak rice in AKW for 30~60 minutes before cooking rice and then cook rice.
It results in glutinous and tasty cooked rice, which can be kept freshly for a substantially longer while.



For live, pork, raw meat and crisp vegetables

Cooking these after being soaked in AKW for 20~30 minutes will reduce crispness of vegetables and will make the meat softer and tastier.



For coffee and black tea

Eliminate a bitter taste of coffee and an astringent taste of black tea and create a natural taste and good flavor of coffee and tea.



For washing vegetables and fruits

Vegetables and fruits washed / rinsed with AKW maintain freshness much longer and can be kept longer time with freshness.



Excessive liquor drinking an hangover

Taking 1~2 cups of AKW on an empty stomach in the morning or before bedtime is good for cure of a hangover (a morning head). [pH level 2 is recommendable]



Alcoholic drink and cocktail

AKW creates a very mild and soft taste of alcoholic drink. Making a ice cocktail with AKW creates a good taste / flavor.



For various cooking

If bamboo sprout, tree sprout, insects, taro and brown seaweed etc are cooked with AKW, then their acid or pungent taste is removed and their innate taste is revived.
If used as fish-cooking water, it eliminates a fish-like smell and rather enhances fish taste.



Animal distemper

AKW gives a good effect to cure puppy's infectious disease (pyrexia), to get rid of it's parasites, to make it's fur beautiful and to promote it's growth. Especially AKW increases hen's egg-laying rate, retards it's sebaceous (fat) constitution and improve chicken's meat quality.





Particular Usage of Acidic Ionized Water [ACW]

Skin burn and stopping of bleeding (hemostasis)

ACW brings the good healing results by steeping in or putting a wet compress on a hurt (wound) part with ACW, as ACW is excellent material for hemostasis, disinfection and recovery (healing) power.



Disinfection effect : Tableware, chopping board and dish towel etc.

Dipping in strong ACW for 20~30 minutes brings good disinfection effect and hygiene.



Teeth-brushing and respiratory disease

Brush your teeth with ACW or gargle with ACW for a serious cough or a sore throat. Massage gums with ACW for gingivitis treatment. (It removes halitosis)



Flower arrangement

Apply a diluted ACW to a cutting cross section of flower stem after diluting ACW with water at the rate of 2(ACW) : 1 (water), and a flower will last its freshness much longer time.



Athlets' food and Hemorrhoids

Dip athlete's foot-affected part in approx 38°C ACW approx 20 minutes / day. An attack of hemorrhoids is relating direct to patient's diet. Hemorrhoids patients are recommended to improve their physical constitution by continuously drinking AKW, and to wash and put a hot-wet compress on an affected part with ACW 2~3 times / day.



Bathing, face-washing and hair washing (shampooing)

ACW is good for skin care and acts as an astringent. Use ACW for bathing to keep your body skin healthier. ACW helps prevent freckles and acnes etc (our skin is of weak acidity).



Use ACW water as a rinses after hair washing with soap, and you will have glossy hair because ACW neutralizes alkalinity of soap. Use ACW after shaving, as a substitution for skin lotion because ACW has the effect of astringent and disinfection.



Caution on Use of Alkaline Ionized Water

Caution

Please be cautious as follows when you use alkaline ionized water generated from the water ionizer.

- Please counsel with a doctor before taking a medicine with ionized water and in case of having following diseases or existing symptom
 1. In case of having a specific disease.
 2. A person having an acidity or taking medical treatment.
 3. A person having a disorder of the liver and kidney.
 4. A person having weak / sensitive skin (in case of using strong ACW).
 5. A person having a dental treatment.
- Do not drink the following generated water.
- At first stage, drink a little ionized water close to pH neutrality (Level 1).

In case an extraordinariness on a body or no symptom improvement is found during drinking ionized water, please quit drinking ionized water and counsel with a doctor.

Water being generated from the unit that has been kept without use for a long time period (drink a generated water after removing longtime-remained water in the unit by 3~5 minutes operation).



Water containing a reagent used for pH value test



- Do not drink acidic ionized water as it is for external use only.

Caution

- Do not drink following water.



Prohibited

- Acidic ionized water
- Water from drain hose

It can cause your body condition deteriorated.

- Refrain from drinking strong alkaline water of more than pH 10.



Prohibited

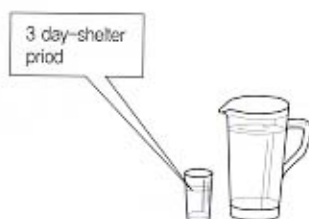
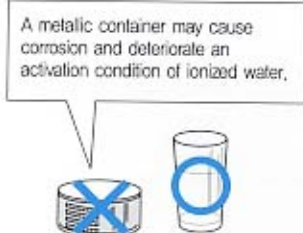
- Approx pH 9.0 is recommendable for drinking.
- Please counsel with a doctor when you drink alkaline water of more than pH 10.
- Please periodically test pH value (one time per 1~2 months).



Caution on Installing & Safekeeping of the Unit

How to keep alkaline ionized water

- As for an alkaline ionized water-keeping container(or bottle), please use a container having a corrosion resistance, such as glass, polyethylene (plastic) or ceramic ware etc.
- 3 day-shelter(effective) period in case of keeping AKW in a closed container in a refrigerator, but drinking AKW within 1 day is recommendable.



⚠ Caution

Cautions on installing and use of the unit

If the unit is disordered, please contact our sales or A/S center, do not try to repair by yourself.



Do not install in the place of water-freezing possibility



Do not put any heavy thing on the top of the unit.
Do not install in the unstable place.



Do not place the unit near by fire or flame



Keep the unit out of the direct ray of the sun.

- Do not use an organic solvent such as benzene etc for cleanign the unit body since the unit body is made with ABS material

in case pH value does not become higher after an inside of an electrolysis cell is cleaned by automatic cleaning function, it would means a possible disorder of the unit or a need of an electrolysis cell replacement.

- Occasionally tap water quality is drastically deteriorated for some time right after a water tank installed in the house or apartment is cleaned, and after replacing a water pipe or in heavy rain season. In this case, have such a tap water inflow into the unit after abandoning such bad water direct to drainage from the tap enough to get a clean tap water, for further extension of the built-in filter life (longevity).



Unit Examination & Emergency Treatment

Abnormal Condition	Cause	Treatment
Main power lamp does not come on	A power plug is not properly put in a socket	Put a plug in a socket exactly.
	The fuse is blown. The fuse is not inserted properly.	Replace the fuse (2 A fuse against 220V).
Ionized Water Lamp does not come off even after turning the tap off	Abnormality of PCB	Immediately pull a plug out of a socket and then bring the unit to a selling agent for A/S.
When pH test with a reagent, acidic water color gets yellow, but alkaline water color indicates pH neutrality	Alkalinity is in inverse proportion to acidity. Therefore, showing an acidic reaction means that inversely alkaline water is generated from the unit. No alkalinity color appearance is resulted from a chemical reaction that carbonic acid in water evaporates some test reagent elements.	Test pH value with Level 4 water (strong alkaline water).
Power supply is suddenly cut off during operating the unit	Too high TDS. TDS is much generated from subterranean water when long time operation at high pH level is made	It is not of disorder. It is an apparatus to protect the unit mechanism from an possible excessive electric current. The unit will automatically operate after some time interval.
Remarkably poor output of ionized water from the unit	Filter is clogged. Filter clogging may be cause by sudden inflow of seriously polluted source water.	Filter replacement is needed.
	Low inflow pressure,	Take a hose away from the diversion adaptor and make a diversion adaptor hole larger.
	The used hose is bent.	Straight the bent hose.

Abnormal Condition	Cause	Treatment
	Filter life (longevity) is over. Filter life can be extremely shorten in case the unit is applied to bad quality water.	Filter replacement is needed.
Strange smell from output water	Due to sudden change of source water quality and too much Cl contained in the source water in summer season. Infinitesimal Cl might be remained in output water as electrolyzed ion water has a strong activity (but such a tiny Cl content falls within a water quality standards) and this Cl may cause a strange smell.	Select pH level 1~2 lower, pH strength. If still serious, filter replacement is needed.
Milk-white materials precipitate on the bottom of an ionized water receptacle (alkaline and acidic water)	It is an extracted CaCO_3 after CO_2 in water is bonded with Ca in case much CO_2 exists in water.	It is totally harmless to our body. It gives merely discomfort-feeling to an user due to it's appearance, but please feel easy. In this instance, select pH level 1~2, lower pH strength
At first no smell, but smell from the output water in about 1 hour after collecting ionized water.	A water-keeping bottle or receptacle is foul. Contamination is added into the bottle when collecting output water from the unit. Filter is seriously polluted.	Check cleanliness of a waterkeeping bottle considering ionized water's molecule cluster size is much smaller. If so serious, then replace a filter and select pH level 1~2, lower pH strength
Water leakage from a filter room	Abnormality with a filter replacement. A filter is not fitted firm on filter base.	Take a filter out, check the filter room and finally fit a filter firm thereto.
No output flow of a generated water from the acidic output port.	The output hose is not bent?	increase the quantity of source water inflow. Straighten the bent hose.



Product Specifications

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Product Manufacture Permission No.		Number 1309 by The Ministry of Health & Welfare
Feature		Ionized water generator
Model		JP-2000, AK-4000
Input Voltage		AC240V 50(Hz) (Can be different in other country)
Input Electricity (Power Consumption)		0.5A (110W)
Weight		Approx 4.5 kg
Overall Dimension		JP-2000 : 265×145×328 mm AK-4000 : 278×150×338.5 mm
Applicable Water Inflow Pressure		0.7~5Kgf/cm ²
Applicable Water Temperature		5~30°C
Unit Operation Type		One Touch-Automatic Ionization Start
Unit Operation Means		Tap-water-open and-close
Electrolysis Device	Electrolysis Method	Continuous electrolysis
	Electrolysis Strength	1-2-3-4 Level
	Ionized Water Output Rate	Max 3 Liters / minute (alkaline + acidic water)
	Cleaning Device	Automatic & Manual cleaning
	Electrode Materials	Platinum and Titanium
Water Purifying Device	Filter Replacement	Easily replaceable cartridge
	Filter Life (Duration)	Approx 6 months basis 20 Liters / day.
	Filter Life Indicator	FND number indication
	Filter Composition	Free, Silver-impregnation, Activated Carbon and Hollow Membrane (Option).
Hot Water Shutoff Device		Temperature Sensor / Auto Shutoff (JP-2000 / AK-4000)
Water Supply		Direct connection to a tap