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Thank you very much for purchasing this Enagic product.

Please read through the Operation Manual carefully for your safety before using this product. Please save this manual for future use.

#### In this manual

Concerning with "Alkaline electrolytic water" and "Acidic electrolytic water" showing in JIS T2004 "Electrolytic water generator for household use", we use the technical term of "KANGEN water" and "Beauty water".

# **IMPORTANT SAFEGUARDS**

#### **READ ALL INSTRUCTIONS BEFORE USING:**

#### **DANGFR** - To reduce the risk of electrocution:

- 1. Always unplug this product immediately after using.
- 2. Do not use while bathing.
- 3. Do not place or store product where it can fall or be pulled into a tub or sink.
- 4. Do not place in or drop into water or other liquid.
- 5. Do not reach for a product that has fallen into water. Unplug immediately.

**WARNING** - To reduce the risk of burns, electrocution, fire, or injury to persons.

- 1. A product should never be left unattended when plugged in.
- 2. Close supervision is necessary when this product is used by, on, or near children or invalids.
- 3. Use this product only for its intended use as described in this manual. Do not use attachments not recommended by the manufacturer.
- 4. Never operate this product if it has a damaged cord or plug, if it is not working properly, if it has been dropped or damaged, or dropped into water. Return the product to a service center for examination and repair.
- 5. Keep the cord away from heated surfaces.
- 6. Never use while sleeping or drowsy.
- 7. Never drop or insert any object into any opening or hose.
- 8. Do not use outdoors or operate where aerosol (spray) products are being used or where oxygen is being administered.
- 9. Connect this product to a properly grounded outlet only. See Grounding Instructions.

# **SAVE THESE INSTRUCTIONS**

- a) This manual contains instructions for cleaning, user maintenance, and proper operations recommended by the manufacturer such as lubrication, and non-Lubrication of this device. All services required by this product must be performed by an authorized service representative, which means that this product contains no user serviceable parts. This product is for household use as stated in this manual and other literature packed with the product.
- b) When a product employing an automatic reset thermal limiter (which shuts off the entire product) is used, please refer to this manual for instructions and warnings.
- c) While the product is in use, please refer to this manual for proper cord maintenance.
- d) The product is intended to be used with water, additives, conditioners, or a product that relies on the conductivity of water for normal operations (electrode type products). The use of baking soda, salt, or other substances to improve the conductivity of the water is stipulated. Please refer to this manual for specific instructions on the proper liquid or additive and the exact amount to be used in conjunction with the product.

# **GROUNDING INSTRUCTIONS**

This product should be grounded. In the event of an electrical short circuit, grounding reduces the risk of electric shock by providing an escape wire for the electric current. This product is equipped with a cord having a grounding wire with a grounding plug. The plug must be plugged into an outlet that is properly installed and grounded.

**DANGER** – Improper use of the grounding plug can result in a risk of electric shock.

If repair or replacement of the cord or plug is necessary, do not connect the grounding wire to either flat blade terminal. The wire with insulation having an outer surface that is green with or without yellow stripes is the grounding wire. Check with a qualified electrician or serviceman if the grounding instructions are not completely understood, or if in doubt as to whether the product is properly grounded.

# For all other grounded, cord connected products:

This product is equipped with an interchangeable power cord to permit connection with all types of electrical power. (100–240V) 50–60Hz. Make sure the plug and consent have the same configuration. Do not use adapters with this product. If it will not fit, contact the distributor from whom you purchased this machine from to acquire the correct power plug.

#### **Extension Cords:**

If it is necessary to use an extension cord, use only a three wire extension cord that has a three-blade grounding plug, and a three-slot receptacle that will accept the plug on the product. Replace or repair a damaged cord.

# SAFETY PRECAUTIONS Observe Strictly

To prevent damage or injury to yourself, others, and property, be sure to observe the following.

<b>△WARNING</b>	Indicates an imminently hazardous situation which may result in health hazards if the device is handled in a manner other than described in this manual.		
<b>△CAUTION</b>	Indicates a potentially hazardous situation which may result in minor or moderate injury if the device is handled in a manner other than described in this manual.		

0

Indicates an action that is not allowed.

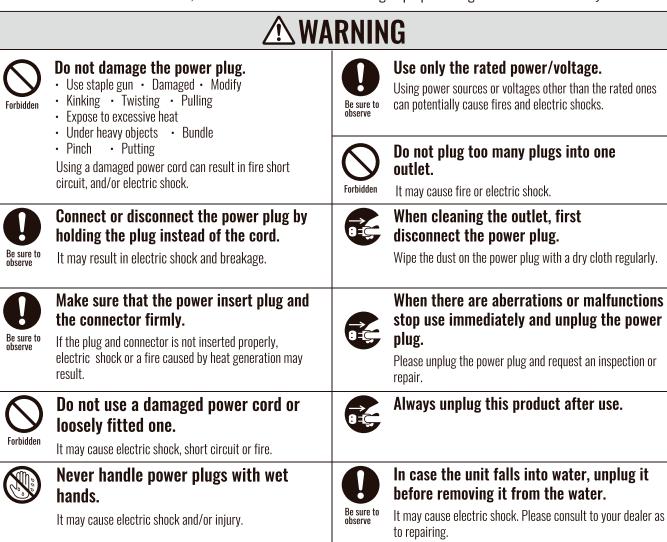


Indicates an action that must be done.

We are not responsible for any damage to the product or accidents caused by improper use or by disregarding the precautions mentioned in this manual.

#### POWER CORD, POWER PLUG

Use the outlet of AC 100 – 240V, 50–60Hz for household use. Using improper voltage will void the warranty.



NOTE Please check that you are using the proper power cord for your area, prior to plugging in the machine. Other power cords are sold separately.

Please contact your distributor for details.

	Region	Japan	USA/CAN	Europe	Australia/China	UK	Switzerland	Italy	Brazil
	Plug Type	A PA	В	SE	° CO	BF	1		N W
	Socket Type		1 1		~	•	•••	• • •	<b>◆••</b>
۱	Voltage (almost always)	100 V	120 V	220-240 V	220-240 V	220-240 V	220-240 V	220-240 V	127/220 V
	Code.	JPN	USA/CAN	EU	AUS	GBR	CHE	ITA	BRA

#### **■** HANDLING OF THE UNIT

To avoid injury or accident, please adhere to the following rules.

# WARNING



Do not attempt to disassemble, repair or alter this unit.

Doing so may result in fire, electric shock, or accidents.



Do not splash water or oil the unit.

Doing so may result in fire, electric shock, or accidents.

Before you move the unit, first remove the

Keep the accessories out of the reach of

Use on a flat stable counter top area

capable of supporting the weight of the

tank or empty the tank.

Leaking liquid may cause trouble.

babies and small children.

Do not install under the sink.

hose is in an elevated position.

Accidental swallowing prevention



This appliance can be used by children age from 8 years and above and persons with reduced physical, Sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or Instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

Be sure to observe

Be sure to observe

Be sure to observe

Forhidden

Forbidden

unit.

# $oldsymbol{ ext{!}}$ caution



Never place anything on the unit.

It may cause damage or fall.

Forbidden

Do not place the unit near hot objects or in the presence of corrosive gas.

Forbidden

May damage or cause the unit to bend or warp.



The appliance must be connected to the water mains using new hose-sets. The old hose-sets should not be reused.



Prohibition of use at water splashing place, such as, bath or shower room.

Doing so may result in fire, electric shock, or accidents.



Do not use in area exposed to direct sunlight, wind or rain.

Doing so may result in fire, electric shock, or accidents.



Check that the operation knobs and buttons work properly before using.



When lifting the unit, do not hold the flexible pipe or the connection part of the flexible pipe.

It may cause damage.



Do not install places where water may freeze.

Be sure to observe

It may cause the Flexible pipes and Water Filter to crack.





Do not use the unit the secondary water

Water cannot flow out the unit and therefore it way case



Forbidden

The contents in the water may flow back into the device, causing damage or malfunction.



Dispose of it in accordance with local waste disposal regulations. For more information, please contact your local or regional administration.



This equipment complies with FCC and ISED radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20 cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.



Please dispose of this product at the end of its operational lifetime by taking it to your local collection point or recycling center for such equipment. This will help to protect the environment in which we all live.

#### ABOUT WATER BEING USED

# **CAUTION**



Use only municipally treated water approved for drinking such as tap water.



Do not use the very dusty water and water with a high red rust content.

Forbidden



shorted.

Do not use salt water or excessively hard water.

The product may be damaged, or its service life will be

Do not use water above 35 degrees Celsius (95 degrees Fahrenheit).

The damage or malfunction can occur.

#### ABOUT STRONG ACIDIC WATER, BEAUTY WATER, AND KANGEN WATER

# riangle caution



Do not drink KANGEN Water if you have kidney problems such as kidney failure or Forbidden trouble processing potassium.



Do not use KANGEN water for baby formula, baby food, or taking medicine.



Consult your physician before drinking KANGEN Water if any of the following Be sure to **pertain to you.** 

- Under a physician's care.
- · Have a chronic illness or are physically weak.
- Have any kidney problems



Begin drinking at a pH level 8.5 of 1–2 glasses a day for about two weeks to let Be sure to observe your body grow accustomed to it. Then gradually increase the pH level to 9.0 to 9.5.



Consult with your physician before using Beauty Water or Strong Acidic Water if you Be sure to have any of the following.

- Sensitive skin
- Allergies



Do not use the generated water in fish tank or give to pets.

Forbidden

Change in pH may kill fish etc.





Metal knives or spoons cleaned with Strong Acidic Water or Beauty Water must be dried.

Rust can develop if the utensils are left wet.



Due to the fact that copper containers are acid-sensitive and aluminum containers are alkaline-sensitive, these materials should not be used.



When the product has not been used for 24 or more hours: Check the product safe Be sure to observe and normal operation, let the water flow for more than 30 seconds before using.



Do not directly consume water whose pH over 10.

When drinking KANGEN water, adjust the pH level to 9.5 or lower.



#### Let the water flow before use

- Run through the water for 3 minutes when starting use new filter.
- Run through the water for 10 seconds when starting use every day.



Do not drink any of the following types of water; they may negatively affect your health.

- Forbidden Strong acidic water BEAUTY water
  - Water being discharged from the secondary water hose
  - Strong KANGEN water during the production of Strong acidic water
  - · Water containing pH test liquid
  - · Cleaning cycle water



If strong acidic water remains on the surface, it can cause rust. Always rinse with tap water after use.

#### ABOUT STORING ELECTROLYZED WATER

# **⚠** CAUTION



Please drink KANGEN water as soon as possible after generation.

Be sure to observe

Store KANGEN water in a sealed clean container and keep refrigerated. Use the contents within 3 days.



Be sure to observe

Store Strong acidic water in a tightly sealed container that is impermeable to light. Use stored contents within one week.

Do not use metal containers. Doing so may cause discoloration of the the containers or damage them.

#### ■ WHEN FEEL SOMETHING WRONG

# **⚠** CAUTION



If you have applied Beauty water to your skin and you experience skin problems. stop use immediately, and consult a doctor.



Be sure to

If after drinking KANGEN Water, you experience any discomfort, please stop drinking KANGEN Water and see your physician.

#### ■ ABOUT THE pH TEST LIQUID

# **⚠** CAUTION



Make sure to keep it tightly closed, and store it out of the reach of babies and small children.



Do not drink the pH test liquid or water containing the test liquid, or allow get in the eve.



Do not put the pH test liquid close to fire. It may ignite and result in fire.

If is accidentally ingested, drink a lot of water, or if it gets in the eye, wash the eye thoroughly with water, and consult a physician.

#### **ABOUT ACCESSORIES**

# riangle caution



Keep the accessories out of the reach of babies, small children and pets.

Swallowing hazard: If the accessory is swallowed

Be sure to

Please use the original electrolysis enhancer and follow the method, amount, and location

Be sure to observe

accidentally consult a physician immediately. Do not use damaged tanks.



correctly.

It may cause electric leakage, electric shock or malfunction.

Be sure to use accessories and water filters specified by our company.

#### **ABOUT MAINTENANCE**

# **∕** CAUTION



Do not use thinner, benzene, cleansers or chlorine based detergents for cleaning.



Do not splash water on or wash the product.

It may cause electric leakage, electric shock, or malfunction.



**Prohibited** 

After using the tank, please rinse inside of the tank and wipe all over the tank.

Be sure to

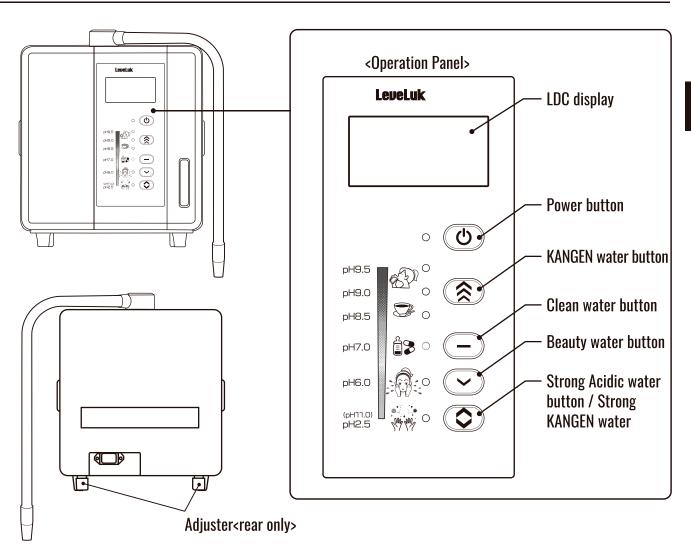
# **CHECKING THE ACCESSORIES**

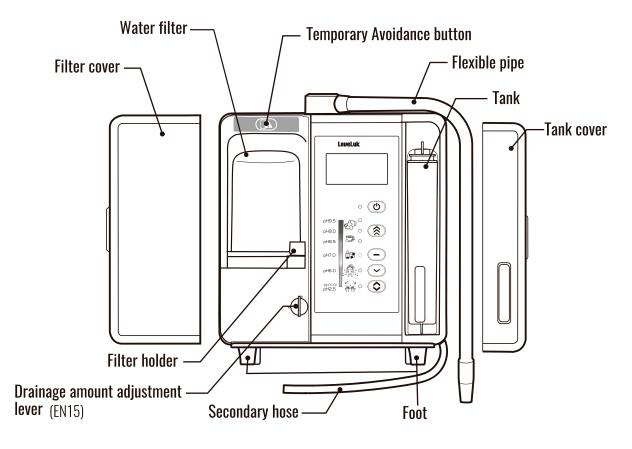
Please check to see if the package has all the necessary parts. If any items are missing, please contact the distributor from whom you purchased it.

Power cord Diverter Adapter set **Suction cup** Funnel **Operation manual Cleaning powder** pH test liquid kit pH test paper with cap pH Chart Electrolysis enhancer Tank: Electrolysis Enhancer Tank, Cleaning tank Electrolysis Cleaning Enhancer Tank Tank Electrolysis Enhancer Cleaning Tank

· Tank

# **NAME OF EACH PART**



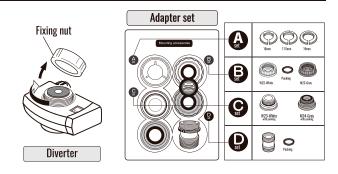


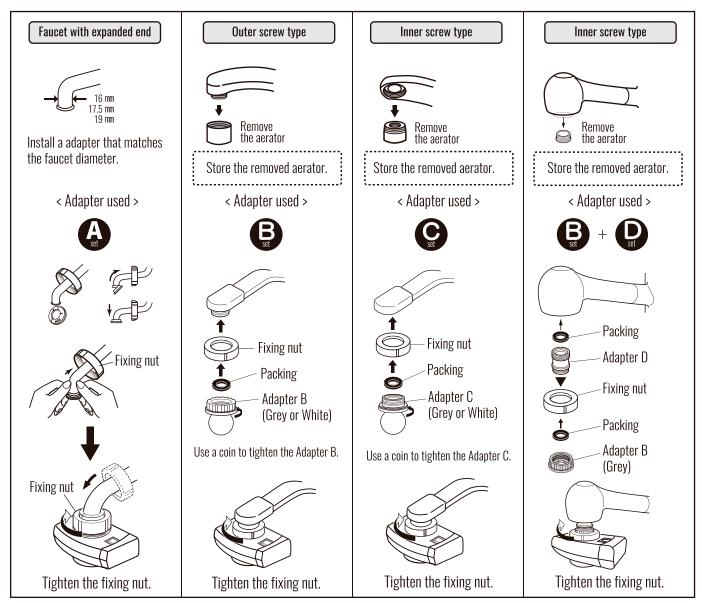
# **INSTALLING THE DIVERTER**

The diverter may fall to fit on some types of faucets. Check the type of faucet beforehand. Then fit the diverter on the faucet in the specified manner.



Do not use a tool to tighten the fixing nut because this may cause the fixing nut to break.





If the thread diameter or thread does not fit, the threads may get damaged. Make sure the thread diameter and pitch are as specified.

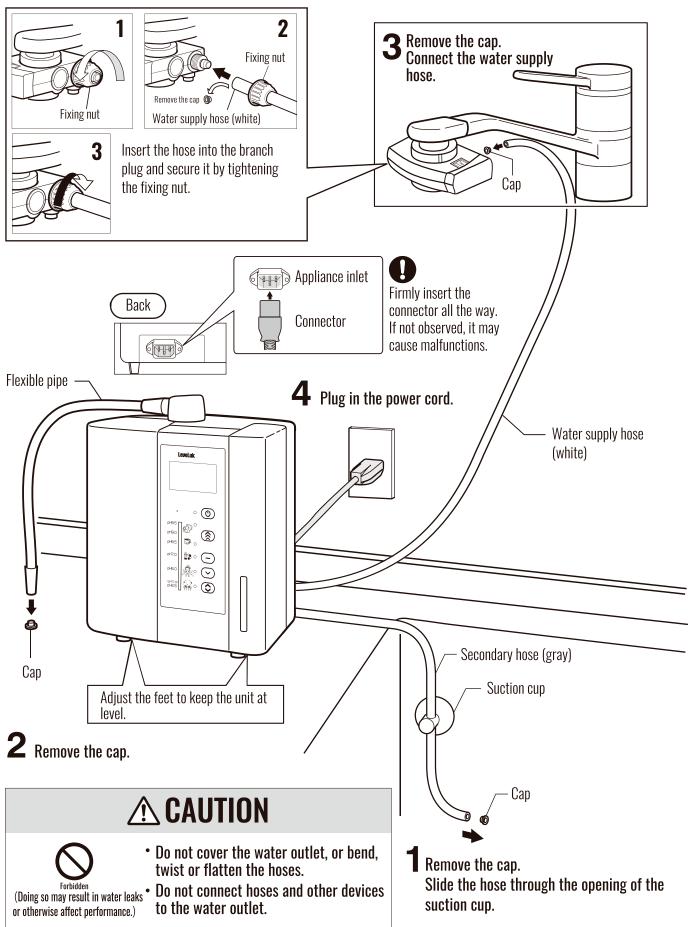
The faucets shown at right cannot accept the diverter.

Faucets with a shower nozzle	With a sensor	Screw diameter does not match	Faucet whose nozzle part is short	Square faucets
		When the accompanying Adapter not fit.  O.88 inch / 22 mm is OK	0.4 inch /10 mm or less 0.96 inch / 24 mm or more	

In this case, add a dedicated faucet or install the specific diverter. For details, contact your dealer.

# **SETTING UP THE UNIT**

### Install according to the order (1 to 4).



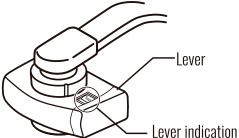
# **OPERATION (BASIC OPERATION)**

This product is capable of producing 5 type of water (KANGEN water, Clean water, Beauty water, Strong acidic water, Strong KANGEN water).

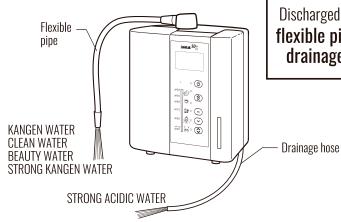
#### **■** Basic operation

Button	Processed water	Drinking	pH level	Mode lamp	Display	Water outlet
	KANGEN WATER	>	9.5 9.0 8.5		KANGEN WATER	Flexible pipe
	CLEAN WATER	>	7.0		CLEAN WATER	Flexible pipe
	BEAUTY WATER	Do not drink	6.0		BEAUTY WATER	Flexible pipe
	STRONG ACIDIC WATER	0	Do not	a*/ :'s \   _	STRONG ACIDIC	Drainage hose
	STRONG KANGEN WATER	Do not drink			WATER	Flexible pipe

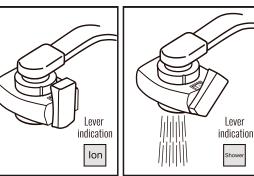




#### ■ Water outlet



# **Processed water position**



Discharged from the flexible pipe or the drainage hose

Tap water is discharged. < Shower>

# Lever indication Тар

Tap water is discharged. < Straight>

#### NOTE

During use, you may hear a sound when gas bubbles generated by processes like electrolysis pass through. It's not abnormal as it occurs structurally.

Tap water position

# PROPER USE OF PROCESSED WATER

# Proper use of processed water.

Processed water	pH level*	Use	Precautions for use	
	9.5	For daily drinking, coffee, green tea.	Not to be used with medicine.	
KANGEN Water	9.0	Getting used the water. For cooking rice.	When taking medicine, select the Clean water. Before use	
8.5		Starting to Drink KANGEN Water.	read the safety precautions (EN4–EN7) thoroughly.	
CLEAN WATER	7.0	For taking medication. For dissolving milk.		
BEAUTY Water	6.0	For your skin care.	N . ( )	
STRONG ACIDIC WATER 2.5		To be used for cleaning.	Not for drinking. Before use read the safety precautions (EN4–EN7) thoroughly.	
STRONG KANGEN WATER	11.0	Has the power to dissolve tough stains.	_ (Live Live) dioloughly.	

# **SCREEN DISPLAY / VOICE GUIDANCE**



Selection		Press the button		When water is being run through the unit	
button	pH level*	Display	Voice	Display	【□())) Voice
	9.5	KANGEN WATER	KANGEN WATER 9.5	KANGEN >>>>>>	KANGEN WATER 9.5
	9.0	KANGEN Water	KANGEN WATER 9.0	KANGEN >>>>>>	KANGEN WATER 9.0
	8.5	KANGEN WATER	KANGEN WATER 8.5	KANGEN >>>>>>	KANGEN WATER 8.5
	7.0	CLEAN WATER	CLEAN WATER	CLEAN >>>>>>>	CLEAN WATER
	6.0	BEAUTY Water	BEAUTY WATER	BEAUTY >>>>>>	BEAUTY WATER
	2.5	STRONG ACIDIC	STRONG ACIDIC	STRONG ACIDIC	STRONG ACIDIC
	11.0	WATER	WATER	>>>>>>	WATER

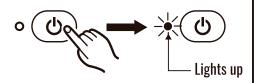
\* The pH level varies depending on water quality or water pressure.

Conditioning may be necessary depending on the quality of the water you use.

# USING KANGEN WATER, BEAUTY WATER, CLEAN WATER

Always use water with a temperature under 35 °C/95 °F. If not observed, may result in damaging the water filter and the unit.

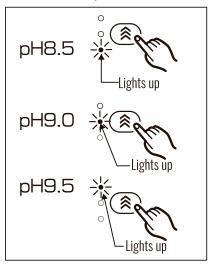
Turn on the power.

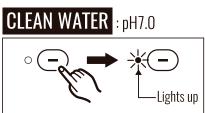


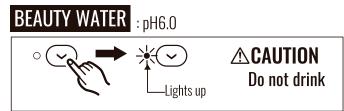
Select a processed water using the button.

#### KANGEN WATER

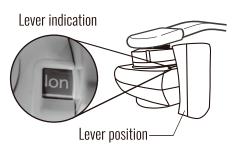
: Select level of pH.



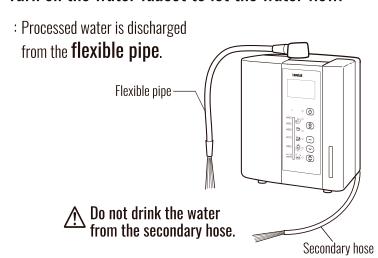




Set the lever of the diverter to ION position.



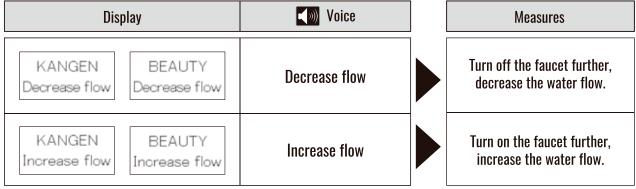
Turn on the water faucet to let the water flow.



Turn off the water faucet.

Please take respective measures in case the messages are displayed as follows.

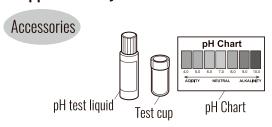
If the messages continue to display after taking measures, unplug the device, close the faucet, and contact your local dealer.



See page EN26 for other message.

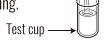
# HOW TO MEASURE pH VALUE OF KANGEN WATER

Even after starting to use, please measure regularly, such as when not used for more than a week or approximately once a month.

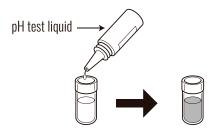


Put KANGEN water in the included test cup about 0.8 inch (2 cm) deep.

 The pH is unsteady in water initially processed. Therefore, flow the water for approximately 10 seconds before sampling.



Add about 1or 2 drops of test liquid in the cup and shake the content well.



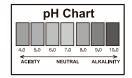
This test liquid is used to periodically measure the approximate value of the pH.

\*The pH test liquid cannot measure the pH below 4.0.

Drinking range: pH 8.5–9.5

Compare the color of the water in the test cup with that of the pH chart and check the pH level.





# **ACAUTION**

- Do not drink the water in the test cup after testing.
- Keep the testing liquid in a cold and dark place.
- Store the pH testing liquid kit out of children's reach.



- When the water filter is new (approx. 1 week), the pH is sometimes slightly high.
- The pH levels varies according to local water characteristics and water pressure.
- Measures to take in case of abnormal pH results.

The result of measuring the pH level.	Cause	Adjustment
Lower than the pH guideline	<ul> <li>The hardness of the tap water is low, and the water does not readily become alkaline.</li> <li>Well water or other water that contains a large amount of carbon dioxide gas.</li> </ul>	Mineral Additive (optional)
	• The electrolyzing performance of the unit has decreased.	Cleaning
Higher than the pH guideline	• The tap water is very hard, and readily becomes alkaline.	Adjust the amount of water discharged Lever move to the left, the water discharge amount adjustment.  Basic Adjustment
		Use mixed with CLEAR WATER.
	• The filter is new.	Continue to use as is. Measure the pH again after one week.

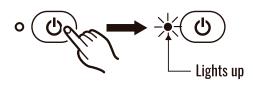
# USING STRONG ACIDIC WATER, STRONG KANGEN WATER

Always use water with a temperature under 35 °C/95 °F. If not observed, may result in damaging the water filter and the unit.

#### **∴WARNING**

• When producing Strong acidic water, please make sure the room is well ventilated and avoid prolonged breathing of the vapors.

Turn on the power.

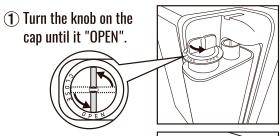


Select the processed water.

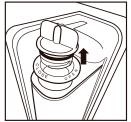


To pour the electrolysis enhancer into the tank.

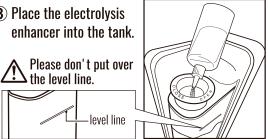
The electrolysis enhancer tank is set in the unit at the time of shipping from the factory.



2 Pull the cap up and out.

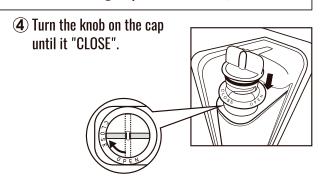


(3) Place the electrolysis

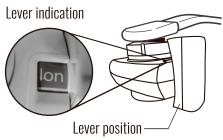


#### **⚠** CAUTION

- To produce Strong acidic water, be sure to put the electrolysis enhancer in the tank before operating.
- Be sure to use Enagic specified electrolysis enhancer.

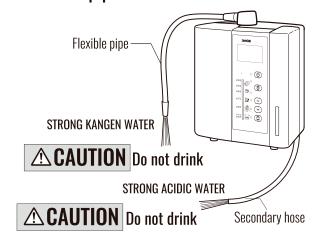


Set the lever of the diverter to ION position.



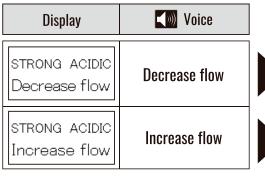
Turn on the water faucet to let the water

- : Strong acidic water is discharged from the Secondary hose.
- : Strong KANGEN water is discharged from the Flexible pipe.



Turn off the water faucet.

Please take respective measures in case the messages are displayed as follows.



Measures		
Turn off the faucet further, decrease the water flow.		
Turn on the faucet further, increase the water flow.		

 It will take about 30 seconds for the enhancer fluid to enter the electrolysis chamber, when you use enhancer fluid for the first time or after refilling the enhancer tank, the machine may display "Out of enhancer".

Please confirm page EN26 for other message.

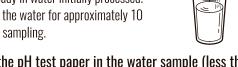
If the messages continue to display after taking measures, unplug the device, close the faucet, and contact your local dealer.

# How to measure pH value of STRONG ACIDIC WATER

The pH test liquid cannot measure the pH below 4.0. For measure the pH value of STRONG ACIDIC WATER, use the pH test paper.

Pour strong acidic water from the secondary hose into a cup.

\*The pH is unsteady in water initially processed. Therefore, flow the water for approximately 10 seconds before sampling.



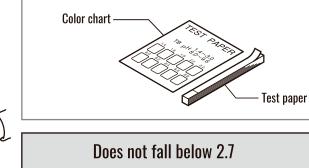
Carefully dip the pH test paper in the water sample (less than half a second).

\*Dipping the test paper too long (longer than 1 second) causes the pigment to be dissolved into the sample water resulting in inaccurate test results.

Shake the pH test paper gently to remove excess water.

Check the color of the wet portion of the pH test paper to the color chart in a brightly place.

(less than 5 seconds.)



pH test paper:

For measuring STRONG ACIDIC WATER

Accessories

- (1) There is too fast of water flow.
  - Turn the faucet so as to reduce the flow of water.
- (2) The electrolysis enhancer tank is empty.
  - Re-fill electrolysis enhancer.

# **⚠** CAUTION

- The pH test paper can only be used to check the pH value of Strong Acidic Water.
- Do not lick the pH paper. If you do, rinse out your mouth and gargle immediately.
- The pH test paper must be kept in cool, dry, and dark places.
- Store the testing liquid and paper out of reach of children.

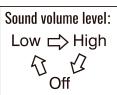
# **SETTING**

#### **SOUND VOLUME SETTING**

Default: Low

With the power off, press 🌘 🕿 button for three or more seconds to sound volume setting mode.

While the lamp is blinking, press ( button to select sound volume level.



Press for 3 seconds or longer

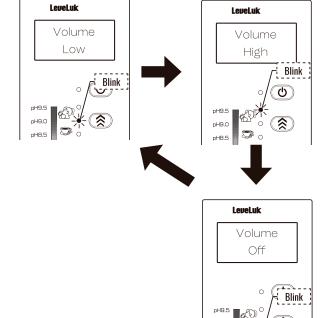
Select sound volume



Press for 3

seconds or longer

Select language



<Display and lamp in sound volume setting mode>

Once the sound volume setting is complete, the power turns off after 15 seconds, or the power turns off immediately by pressing power button.

#### **LANGUAGE SETTING**

Default: English

With the power off, press — button for three or more seconds to language setting mode.

While the lamp is blinking, press

example: English

The language has been set to English

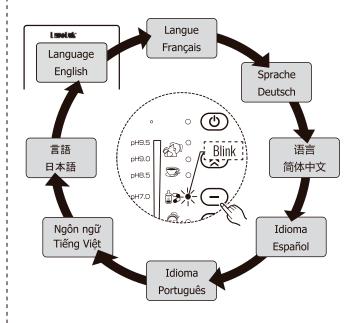
— button to select language.

Language:

English▶Français▶Deutsch▶简体中文▶Español ▶ Português ▶ Tiếng Việt ▶ 日本語 ▶ English

Once language setting is complete, the power turns off after 15 seconds, or the power turns off immediately by pressing power button.

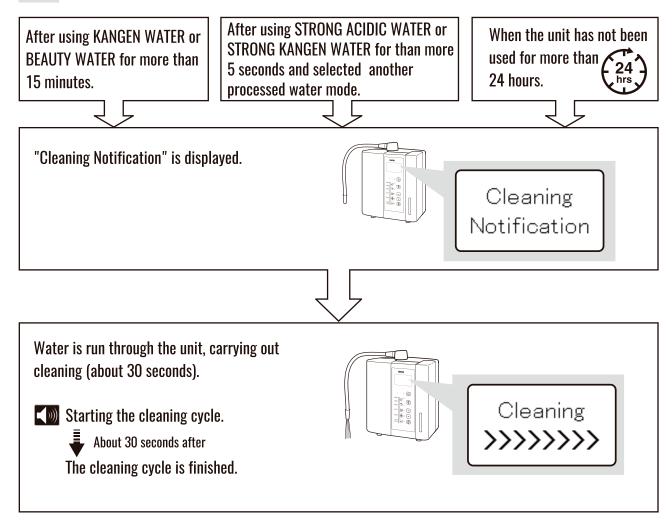
<Display and lamp in language setting mode>



# **AUTOMATIC CLEANING**

Automatically cleans the electrodes to remove calcium deposits on the electrode plate inside the unit.

**NOTE** Do not pull out the power plug.



You cannot select the E-Cleaning until the automatic cleaning is completed. If you want to do the E-Cleaning, be sure to run water through the unit and completed the automatic cleaning.

Do not use the water that comes out from the flexible pipe or secondary hose.

# **HOW TO REPLACE THE WATER FILTER**

If it is time for replacement, replace it with a new water filter.

#### Guide to replacing the water filter

- Total amount of water run through the filter: 6 000 filter\*
- · Period of use: Approximately 1 year

Remove the filter cover.

#### **A** CAUTION

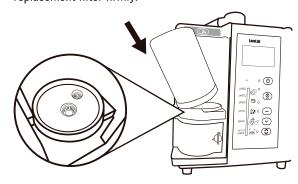
- Do not pull out the power plug or connectors.
- Do not push over the unit or aim the flexible pipe upward.
- Replace the water filter after stopping the water from flexible pipe and secondary hose.

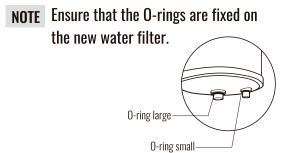
XValue indicated in JIS S 3201 Testing Method for Household Water Purifiers. €

# When the turning off the faucet, the following display will appear. Filter Change When you cannot replace the filter immediately, press the Temporary Avoidance button. If filter replacement has not been completed, "Filter change" indication will reappear about 2 weeks.

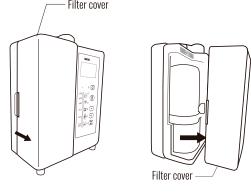
Install the new filter.

Ensure that the previous O-rings do not remain on the filter tray. Confirm installation position and insert the replacement filter firmly.

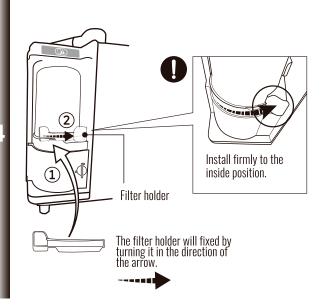




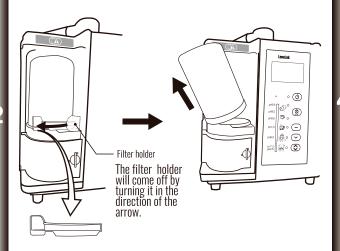
\_\_\_\_ Filter cover



Install the filter holder.

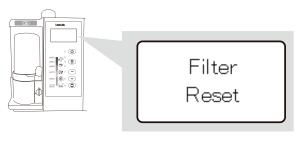


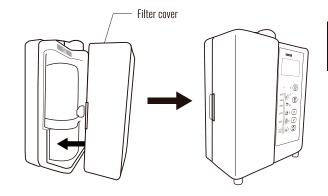
Remove the filter holder > Remove the water filter.



#### Install the filter cover.

When recognized the new filter, the filter history is reset automatically and the screen display reverts to the main screen.





Your filter has been reset

#### ▼ When using non-genuine filter ▼

Cannot recognize the filter. Press the Temporary Avoidance button.



The filter has been set

#### **A** CAUTION

Approximately two weeks after installation of a non-genuine filter or exceeding the recommended water flow amount or usage time, "Filter change" is displayed.

Non-genuine filters are not manufactured to specifications suited to this product, so their use may result damage and void your warranty.

Please purchase genuine filters at the Enagic Online Shop or other locations that sell our products.

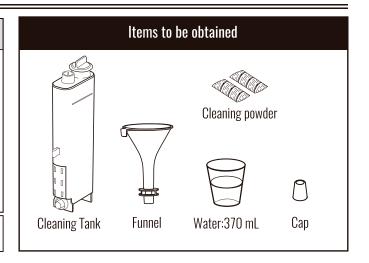
- NOTE Run water through the unit for 3 to 4 minutes when you first use a new filter.
  - Please ensure that the spent water filter (combustibles) observe the regulations of the region. (The material of water filter case is ABS resin. Please refer to page 28 standard specifications for inside filtering material.)

# **E-CLEANING**: Remove calcium adhering to the inside of the unit.

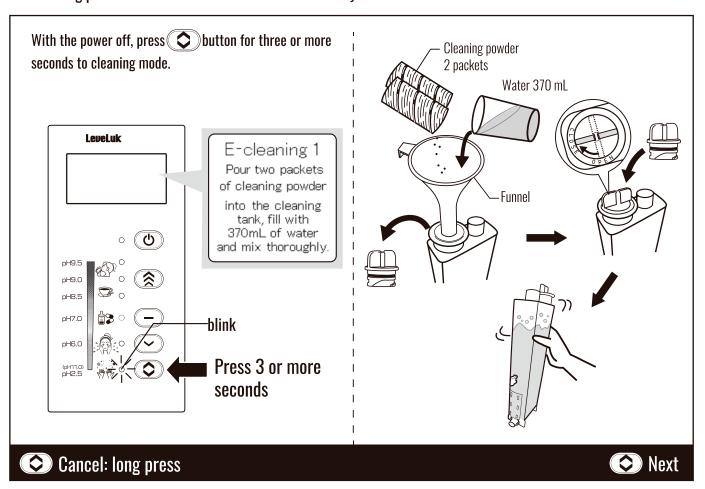
# **A** CAUTION

- Be sure to shut off faucet and stop any function.
- Use two packets of our cleaning powder for one cleaning operation. The use of another manufacturer's powder may cause damage to the unit.
- If the cleaning solution gets into your eyes, wash it away immediately.
- Please use the cleaning powder once every week or two weeks.

Necessary time for cleaning: About 3 hours



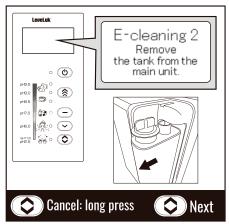
The cleaning powder contains citric acid which is commonly used as food additive and is harmless.



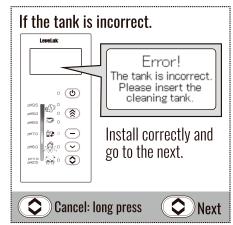
#### Cleaning the machine

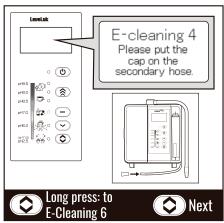
Please do the E-cleaning once every one to two weeks. We recommend deep cleaning once a year at a qualified service center. Deep cleaning intervals may vary, depending on hardness of source water. Water softener is recommended only for extremely hard water sources.

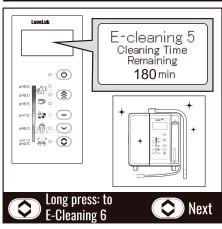
#### Carry out E-cleaning according to display procedure.



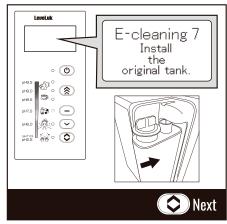


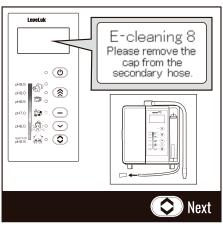


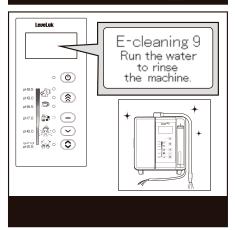


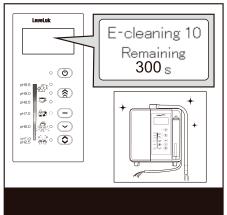


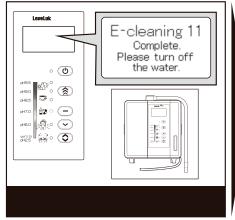












Please close the faucet, return to the power off state.

#### NOTE

- The water flows out of pipe or hose is cleaning water, so do not use it.
- After using the cleaning tank, thoroughly rinse the tank with tap water, dry it completely with a soft cloth, and store in a dry place.

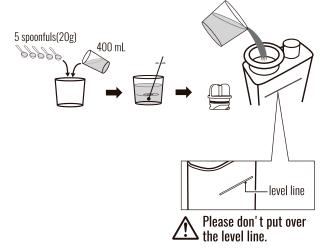
# **USE OPTIONAL FUNCTIONS**

# Use of the mineral additive.

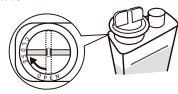
If the pH value remains lower than the normal range, add calcium lactate ( must be purchased separately).

- Calcium lactate (optional) increases the calcium concentration in KANGEN WATER.
- The addition of calcium lactate is for the purpose of activating electrolysis more, not for the purpose of ingestion.
- If the pH value is within the normal range, there is no need to add calcium lactate.
- After use, wash the inside of the mineral solution tank so that no calcium lactate liquid remains, then carefully wipe away moisture, and allow the tank to dry.

Put 20 g of calcium lactate (5 spoonfuls using the attached spoon) and 400 mL of lukewarm water into a container, dissolve it completely so that it does not become lumpy, then put it in the mineral tank.



Insert the cap, turn it knob on the cap until it "CLOSE".

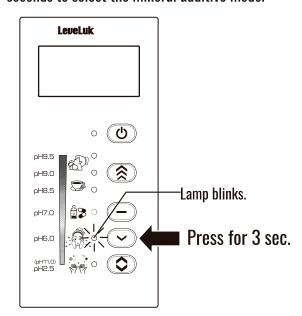


Insert it in the tank position of the unit.

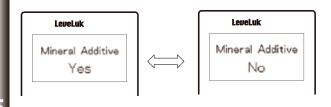




With the power off, press button for about 3 seconds to select the mineral additive mode.



Press button while the lamp is blinking, change the display to "Yes".



If 15 seconds have elapsed without any operation, the power turns off, or the power turns off immediately by pressing power button.

Return the unit to KANGEN Water mode by pressing power button again.

# **OPTIONAL ACCESSORIES**

Available at the dealer from whom you purchased the product or dealers handing Enagic products.

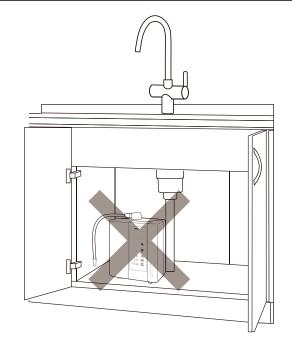
Optional a	Guide of use	
Mineral additive set	Mineral solution tank, Calcium lactate, spoon	When lower than the pH guideline.
Electrolysis Enhancer	400 grams per bottle	Producing Strong Acidic Water and Strong KANGEN Water.
Cleaning powder	24 packages per box	Remove calcium deposits on the electrode plate inside the unit.
Water supply hose (40–200 inches / 1–5 m)		
Secondary water hose (40–200 inches / 1–5 m)		
Long Flexible faucet Pipe (32 inches / 800 mm long)		
Screw fixed adapter		
Replacement Filter		

#### **Prohibition:**

The original parts used for Enagic products are designed to provide functionality and safety. For this reason, ENAGIC does not approve the use of aftermarket or imitation products. In particular, installing any product other than the SD-U under the sink is strictly prohibited.

#### **Parts Warranty:**

Enagic warranty does not cover damages or failure of its products when used with third party products. ENAGIC is not responsible for failure, accident or damage resulting from the use or modification of parts other than genuine ENAGIC parts.



# WHEN THIS DISPLAY APPEARS

Please take respective measure in case the indications are displayed as follows. If the indicators continue to light up after taking measures, unplug the device and consult your distributor.

DISPLAY	CAUSE AND NECESSARY ACTION
Hot Water	<ul> <li>This message is displayed if hot water at a temperature of at least 40 degrees C is run through the unit and the hot water protection device operates.</li> </ul>
	Run through water below 35 degrees C.
Overheat	<ul> <li>This message is displayed when the temperature inside the unit rises and the temperature detection device operates.</li> <li>Close the faucet and power off, keep on 30 minutes.</li> <li>It may take 30 minutes or more depending on the usage environment.</li> </ul>
Out of enhancer	<ul> <li>This message is displayed when the electrolysis enhancer is used up while strong acidic water is being made.</li> <li>Close the faucet and add electrolysis enhaner before use.</li> </ul>
	Olose the radoct and add electronysis chinaner before asc.
Filter Change	<ul> <li>This message is the filter replacement timing.</li> <li>Remove the filter and replace with a new one.</li> </ul>
The enhancer tank is missing. Please insert the electrolysis enhancer tank.	<ul> <li>This message is displayed when the electrolysis enhancer tank is not installed.</li> <li>Close the faucet and install the electrolysis enhancer tank.</li> </ul>
The mineral tank is missing. Please insert the mineral solution tank.	<ul> <li>This message is displayed when the mineral solution tank is not installed.</li> <li>Close the faucet and install the mineral solution tank before use.</li> </ul>
Error! The tank is incorrect. Please insert the cleaning tank.	<ul> <li>This message is displayed when the cleaning tank is not installed.</li> <li>Close the faucet and install the cleaning tank before use.</li> </ul>
Filter error Cannot recognize the filter. Please reinstall.	This message is displayed when the water filter cannot be recognized.  It may cause a decrease in functionality. Please use Enagic genuine products.
Filter error The filter may not be an original Enagic filter. Warranty may not cover any malfunctions.	This message is displayed when the water filter cannot be recognized.  It may cause a decrease in functionality. Please use Enagic genuine products.

# **TROUBLESHOOTING**

If you encounter the following symptoms, please take the appropriate measures. Never attempt to disassemble or repair the product yourself. Unplug the device and consult your distributor.

SYMPTOMS	CAUSES AND SOLUTIONS
<ul> <li>Nothing is displayed on the screen.</li> <li>The power does not turn on.</li> </ul>	<ul> <li>The power cord is not connected to the power outlet or the unit.</li> <li>Check the connection.</li> </ul>
• Alarm sounds.	<ul><li>Abnormality detection.</li><li>Check the display on the screen.</li></ul>
No water comes out. (In case of cold weather)	<ul> <li>The inside the unit is frozen.</li> <li>Raise the room temperature and wait for the inside of the unit to melts.</li> </ul>
Weak water flow or decreased output.	<ul> <li>Water flow (pressure) is low.</li> <li>Open the faucet wider.</li> <li>Water filter has clogged.</li> <li>Replace the water filter with a new one.</li> <li>Cleaning timing.</li> <li>Carry out E-Cleaning.</li> </ul>
KANGEN water has chlorine odor.	<ul> <li>The performance of the water purification filter is reduced.</li> <li>Replace the water filter with a new one.</li> </ul>
White suspended matter is mixed in with the KANGEN water.	<ul> <li>Calcium processed by electrolysis.</li> <li>This is not a malfunction.</li> <li>If it bothers you, carry out E-cleaning.</li> </ul>
The inside of secondary water pipe is stained dark.	<ul> <li>Oxidizing material, such as iron has adhered.</li> <li>This is not a malfunction.</li> <li>If it bothers you, carry out E-cleaning.</li> </ul>
• The pH value of Strong Acidic water does not fall below 2.7.	<ul> <li>There is too fast of water flow.</li> <li>Turn the faucet so as reduce the flow of water.</li> <li>The electrolysis enhancer tank is empty.</li> <li>Replace the electrolysis enhancer tank with a full one.</li> </ul>
• It is becoming difficult for the pH level to rise.	<ul> <li>Calcium has built up inside the unit.</li> <li>Run through Beauty water (Acidic water) for about 1 minute or more.</li> <li>Cleaning time.</li> <li>Carry out Cleaning.</li> </ul>

# **STANDARD SPECIFICATIONS**

Item name	lonizing system / Feed water specs and connection		Continuous ionizing system ( Built-in flow rate sensor) / One way diverter
Rating 100-240V AC 50-60Hz 2.6-1.1A  Main unit dimensions Approx. H13.1×W11.0×D5.7 inches (H33.4×W28.0×D14.5 cm)  Main unit weight Approx. 11.9 lbs (5.4 kg)  Usable water Drinking water): Raw water that has been treated to a level sufficient to meet federal drinking water standards as well as state and local water quality standards and is safe for human consumption.  Applicable water pressure 50 kPa-450 kPa  Output water volume (Generated water flow) (When Using KANGEN water) 0.6-1.2 L/min [at water pressure of 40 kPa] (When Using Strong acidic water) (Approx. pH 8.5 · pH 9.0 · pH 9.5) (Clean water (Approx. pH 7.0) (Approx. pH 7.0) (Approx. pH 2.5) (Approx. pH 2.5) (Approx. pH 1.0) (Approx. pH	•		Leveluk SD501DX
Main unit dimensions  Approx. H13.1 × W11.0 × D5.7 inches (H33.4 × W28.0 × D14.5 cm)  Main unit weight  Approx. 11.9 lbs (5.4 kg)  Potable water (Drinking water): Raw water that has been treated to a level sufficient to meet federal drinking water standards as well as state and local water quality standards and is safe for human consumption.  Applicable water pressure  Output water volume (Generated water flow)  Electrolysis capacity  String KANGEN water)  Output water volume (Generated water flow)  Electrolysis capacity  String acidic water  Token Using KANGEN stevels Clean water (Approx. pH 8.5 · pH 9.0 · pH 9.5)  Clean water (Approx. pH 7.0)  Token Using KANGEN water (Approx. pH 7.0)  Token Water (Approx. pH 11.0)  When KANGEN water or Beauty water has been used for more than 10 minutes. (10 seconds when the water is stopped)  When water is not passed through the unit for 24 hours. (30 seconds)  Material of electrode and ionizing cell  Electrolyzer life Approx. 500 hours cumulative  Filter material  Activated carbon, Calcium Sulfite  Aesthetic Chlorine, Taste and Odor up to 1 500 gallons (6 000 liters)  Metal ions/salt dissolved in original tap water  Approx. 1 year [Total amount water approx. 6 000 liters]  Guideline for time to replace filter  Guideline for time to replace filter  Guideline for time to replace filter  Current fuse  Detectrolysis enhancer (For strong acidic water production)  Electrolysis enhancer (sodium chloride) re-fill need indication  Power protection device  Detection device  Detection of temperature rise and hot water  Electric shock protection class  IP Code / Length of power cord  IPX1 / Approx. 2 m	Model		A29-01
Main unit weight Approx. 11.9 lbs (5.4 kg)  Usable water Potable water (Drinking water): Raw water that has been treated to a level sufficient to meet federal drinking water standards as well as state and local water quality standards and is safe for human consumption.  Applicable water pressure 50 kPa 450 kPa  Output water volume (Generated water flow)  Electrolysis capacity settings  Electrolysis capacity settings  Electrolysis capacity settings  Electrode cleaning  When KANGEN water (Approx. pH 8.5 · pH 9.0 · pH 9.5) (Clean water (Approx. pH 7.0) (Approx. pH 6.0) (Approx. pH 1.0)  When KANGEN water (Approx. pH 1.0)  When KANGEN water is stopped)  When water is not passed through the unit for 24 hours. (30 seconds)  Material of electrode and ionizing cell  Electrolyzer life Approx. 500 hours cumulative  Filter material Activated carbon, Calcium Sulfite  Removable substance Guideline for time to replace full children in the companies of the co	Rating		100-240V AC 50-60Hz 2.6-1.1A
Usable water  Potable water (Drinking water): Raw water that has been treated to a level sufficient to meet federal drinking water standards as well as state and local water quality standards and is safe for human consumption.  Applicable water pressure  Output water volume (Generated water flow)  Electrolysis capacity settings  Electrolysis capacity settings  Electrolysis eapacity  Electrode cleaning  Material of electrode and ionizing cell  Electrolyzer life  Approx. 500 hours cumulative  Filter material  Activated carbon, Calcium Sulfite  Removable substance  Guideline for time to replace filter  Incremovable substance  Guideline for time to replace filter  Electrolysis enhancer (For Torng addic water production)  Electrolysis enhancer (For Forced dissolving adding type  Power protection device  Detection device  Detection device  IP Code / Length of power cord  PXX / Approx. 2 m  Potable water (Drinking water') standards as well as state and local water and local water and local water quality standards as well as state and local water quality standards as well as state and local water quality standards as well as state and local water quality standards as well as state and local water quality  Approx. 40 kPa  (When Using Strong acidic water pressure of 40 kPa]  (When Using Strong acidic water (Approx. pH 8.5 · pH 9.0 · pH 9.5)  (Lena water (Approx. pH 6.0)  KANGEN water (Approx. pH 6.0)  Strong acidic water production (differ significantly depending on water quality)  Available water temperature  Electrolysis enhancer (For Codium Chloride) re-fill need indication  Electrolysis enhancer (For Codium Chl	Main unit dimensions		Approx. H13.1 $\times$ W11.0 $\times$ D5.7 inches (H33.4 $\times$ W28.0 $\times$ D14.5 cm)
Usable water between the federal drinking water standards as well as state and local water quality standards and is safe for human consumption.  Applicable water pressure 50 kPa 450 kPa 2.5-4.0 L/min [at water pressure of 80 kPa] (When Using Strong acidic water) 0.6-1.2 L/min [at water pressure of 40 kPa] (When Using Strong acidic water) 0.6-1.2 L/min [at water pressure of 40 kPa] (When Using Strong acidic water) (Approx. pH 8.5 - pH 9.0 - pH 9.5) (Clean water (Approx. pH 7.0) Approx. pH 7.0) Strong acidic water (Approx. pH 6.0) Strong acidic water (Approx. pH 6.0) Strong acidic water (Approx. pH 11.0) When KANGEN water (Approx. pH 11.0) When KANGEN water of the water is stopped) When water is not passed through the unit for 24 hours. (30 seconds) When water is not passed through the unit for 24 hours. (30 seconds) When water is not passed through the unit for 24 hours. (30 seconds) When water is not passed through the unit for 24 hours. (30 seconds) When water is not passed through the unit for 24 hours. (30 seconds) When water is not passed through the unit for 24 hours. (30 seconds) When water is not passed through the unit for 24 hours. (30 seconds) When water is not passed through the unit for 24 hours. (30 seconds) When water is not passed through the unit for 24 hours. (30 seconds) When water is not passed through the unit for 24 hours. (30 seconds) When water dealton in the unit for 24 hours. (30 seconds) When water dealton in the unit for 24 hours. (30 seconds) When water dealton in the unit for 24 hours. (40 seconds when the water is stopped) When water dealton in the unit for 24 hours. (50 seconds) When water dealton in the unit for 24 hours. (50 seconds) When water dealton in the unit for 24 hours. (50 seconds) When water dealton in the unit for 24 hours. (50 seconds) When water dealton in the unit for 24 hours. (50 seconds) When water dealton in the unit for 24 hours. (50 seconds) When water dealton in the unit for 24 hours. (50 seconds) When water dealton in the unit for 24 hours. (50 seconds) Whe	Main unit weight		Approx. 11.9 lbs (5.4 kg)
Output water volume (Generated water flow)  Ch-1.2 L/min [at water pressure of 80 kPa] (When Using KANGEN water ) 0.6-1.2 L/min [at water pressure of 40 kPa] (When Using Strong acidic water )  KANGEN: 3 levels (Approx. pH 8.5 · pH 9.0 · pH 9.5) Clean water (Approx. pH 7.0) Strong acidic water (Approx. pH 2.5) Strong KANGEN water or Beauty water has been used for more than 10 minutes. (10 seconds when the water is stopped)  Material of electrode and ionizing cell Electrolyzer life Approx. 500 hours cumulative Filter material Activated carbon, Calcium Sulfite  Removable substance Aesthetic Chlorine, Taste and Odor up to 1 500 gallons (6 000 liters)  Un-removable substance Aesthetic Chlorine, Taste and Odor up to 1 500 gallons (6 000 liters)  Un-removable substance Guideline for time to replace filter  Guideline for time to replace filter  Strong acidic water production  Electrolyzis enhancer (For Strong acidic water production)  Electrolysis enhancer (Sodium Clomessage  Detection device Detection of temperature rise and hot water  Detection device Detection of temperature rise and hot water  Electric shock protection class  IP Code/ Length of power cord    Courrent fuse   Detection of temperature rise and hot water   Detection device   Detection of temperature rise and hot water   Detection	Usable water		to meet federal drinking water standards as well as state and local water quality
Output water volume (Generated water flow)    Col-1.2 L/min [at water pressure of 40 kPa] (When Using Strong acidic water )   Electrolysis capacity settings   KANGEN: 3 levels (Approx. pH 8.5 · pH 9.0 · pH 9.5) (Clean water (Approx. pH 7.0)     Electrolysis capacity settings   Televals Beauty water (Approx. pH 2.5) (Approx. pH 1.0)     Electrode cleaning   When KANGEN water or Beauty water has been used for more than 10 minutes. (10 seconds when the water is stopped)   When water is not passed through the unit for 24 hours. (30 seconds)     Material of electrode and ionizing cell   Platinum-plated titanium	Applicable water pressure		50 kPa-450 kPa
Electrolysis capacity settings    Tolevels   Clean water	Electrolysis	•	( When Using KANGEN water ) 0.6–1.2 L/min [at water pressure of 40 kPa]
When KANGEN water or Beauty water has been used for more than 10 minutes. (10 seconds when the water is stopped)   When water is not passed through the unit for 24 hours. (30 seconds)		• •	Clean water (Approx. pH 7.0) 7 levels Beauty water (Approx. pH 6.0) Strong acidic water (Approx. pH 2.5)
ionizing cell Electrolyzer life Approx. 500 hours cumulative  Filter material Activated carbon, Calcium Sulfite  Removable substance Aesthetic Chlorine, Taste and Odor up to 1 500 gallons (6 000 liters)  Un-removable substance Metal ions/salt dissolved in original tap water  Guideline for time to replace filter (differ significantly depending on water quality)  Available water temperature 5–35 degrees C. (41–95 degrees F.)  Electrolysis enhancer (For Strong acidic water production)  Electrolysis enhancer (sodium chloride) re-fill need indication  Power protection device Current fuse  Detection device Detection of temperature rise and hot water  Electric shock protection class  IP Code / Length of power cord  IPX1 / Approx. 2 m		Electrode cleaning	seconds when the water is stopped)
Filter material  Activated carbon, Calcium Sulfite  Removable substance  Un-removable substance  Guideline for time to replace filter  Approx. 1 year [ Total amount water: approx. 6 000 liters] (differ significantly depending on water quality)  Available water temperature  Electrolysis enhancer (For Strong acidic water production)  Electrolysis enhancer (sodium chloride) re-fill need indication  Power protection device  Detection device  Detection device  Detection for power cord  IPX1 / Approx. 2 m			Platinum-plated titanium
Removable substance Un-removable substance Guideline for time to replace filter  Approx. 1 year [ Total amount water: approx. 6 000 liters]  Available water temperature  Electrolysis enhancer (For Strong acidic water production)  Electrolysis enhancer (sodium chloride) re-fill need indication  Power protection device  Detection device  Detection device  Detection device  Detection for power cord  IPX1 / Approx. 2 m		Electrolyzer life	Approx. 500 hours cumulative
Un-removable substance Guideline for time to replace filter  Approx. 1 year [ Total amount water: approx. 6 000 liters] (differ significantly depending on water quality)  Available water temperature  Electrolysis enhancer (For Strong acidic water production)  Electrolysis enhancer (sodium chloride) re-fill need indication  Power protection device  Detection device  Detection device  Detection of temperature rise and hot water  Electric shock protection class  IP Code / Length of power cord  Metal ions/salt dissolved in original tap water  Approx. 1 year [ Total amount water: approx. 6 000 liters]  (differ significantly depending on water quality)  Forced dissolving adding type  Voice guidance, LCD message  Current fuse  Detection device  Detection of temperature rise and hot water	Water filter	Filter material	Activated carbon, Calcium Sulfite
Available water temperature  Electrolysis enhancer (For Strong acidic water production)  Electrolysis enhancer (sodium chloride) re-fill need indication  Power protection device  Detection device  Electric shock protection class  IP Code / Length of power cord  Approx. 1 year [ 10tal amount water: approx. 6 000 liters] (differ significantly depending on water quality)  5–35 degrees C. (41–95 degrees F.)  Forced dissolving adding type  Voice guidance, LCD message  Current fuse  Detection device  Detection of temperature rise and hot water  Electric shock protection class  IP Code / Length of power cord  IPX1 / Approx. 2 m		Removable substance	Aesthetic Chlorine, Taste and Odor up to 1 500 gallons (6 000 liters)
Available water temperature  Electrolysis enhancer (For Strong acidic water production)  Electrolysis enhancer (sodium chloride) re-fill need indication  Power protection device  Detection device  Electric shock protection class  IP Code / Length of power cord  Approx. 1 year [ 10tal amount water: approx. 6 000 liters] (differ significantly depending on water quality)  5–35 degrees C. (41–95 degrees F.)  Forced dissolving adding type  Voice guidance, LCD message  Current fuse  Detection device  Detection of temperature rise and hot water  Electric shock protection class  IP Code / Length of power cord  IPX1 / Approx. 2 m		Un-removable substance	Metal ions/salt dissolved in original tap water
Electrolysis enhancer (For Strong acidic water production)  Electrolysis enhancer (sodium chloride) re-fill need indication  Power protection device  Detection device  Detection of temperature rise and hot water  Electric shock protection class  IP Code / Length of power cord  IPX1 / Approx. 2 m			
Strong acidic water production)  Electrolysis enhancer (sodium chloride) re-fill need indication  Power protection device  Detection device  Detection of temperature rise and hot water  Electric shock protection class  IP Code / Length of power cord  Forced dissolving adding type  Voice guidance, LCD message  Current fuse  Detection of temperature rise and hot water  Electric shock protection class  IPX1 / Approx. 2 m	Available water temperature		5–35 degrees C. (41–95 degrees F.)
Chloride) re-fill need indication  LCD message  Power protection device  Current fuse  Detection device  Detection of temperature rise and hot water  Electric shock protection class  IP Code / Length of power cord  IPX1 / Approx. 2 m	Electrolysis enhancer ( For Strong acidic water production)		Forced dissolving adding type
Detection device  Detection of temperature rise and hot water  Electric shock protection class  IP Code / Length of power cord  IPX1 / Approx. 2 m	Electrolysis enhancer (sodium chloride) re-fill need indication		
Electric shock protection class Class 1  IP Code / Length of power cord IPX1 / Approx. 2 m	Power protection device		Current fuse
IP Code / Length of power cord   IPX1 / Approx. 2 m	Detection device		Detection of temperature rise and hot water
	Electric shock protection class		Class 1
Manufacturer Enagic International Co., Ltd. 1-40-1 Hoshidakita Katano-shi Osaka 576-0017, Japan	IP Code / Length of power cord		IPX1 / Approx. 2 m
	Ma	nufacturer	Enagic International Co., Ltd. 1-40-1 Hoshidakita Katano-shi Osaka 576-0017, Japan

- Specifications and design subject to change for product improvements without notice.
- The electrolytic processing capacity and the filter service life largely depend on the water quality or how the machine was used.

# AFTER-SALES SERVICE

# Warranty

Please keep the included warranty in a safe place for future reference.

# If you need repair during warranty period.

For repairs, please contact your local dealer.

Please read the warranty carefully, some repairs may not be covered under the warranty.



ightharpoonup **CAUTION** \*You may be charged if your repair is for any of the following reasons.

- 1. Trouble resulting from handling in a manner that is not specified in the "Operation Manual".
- 2. Trouble or damage due to the use of water other than municipal drinking water.
- 3. Trouble or damage due to natural disaster, such as, earthquake, fires or floods.
- 4. Dropping the product or damage caused during transportation.
- 5. Damage caused by use of improper voltage.
- 6. Replacement of consumable parts.
- 7. Replacement of spent electrode.
- 8. Trouble resulting from improper usage or failure to perform regular maintenance.
- 9. Trouble resulting from tampering or altering.
- 10. Trouble caused by sediment or lime scale deposits.

# If you need to repair after warranty expiration.

Contact your local dealer. Repair may be available upon request at purchaser's expense.

# Other

- If you have any questions about the product, please contact your dear.
- For use with cold water only.
- Do not use with water that is microbiologically unsafe or unknown quality without adequate disinfection before or after the system.
- Water pipe connections and fixtures directly connected to a potable water supply shall be sized, installed, and maintained in accordance with federal, state, and local codes.