

**Keep safe**



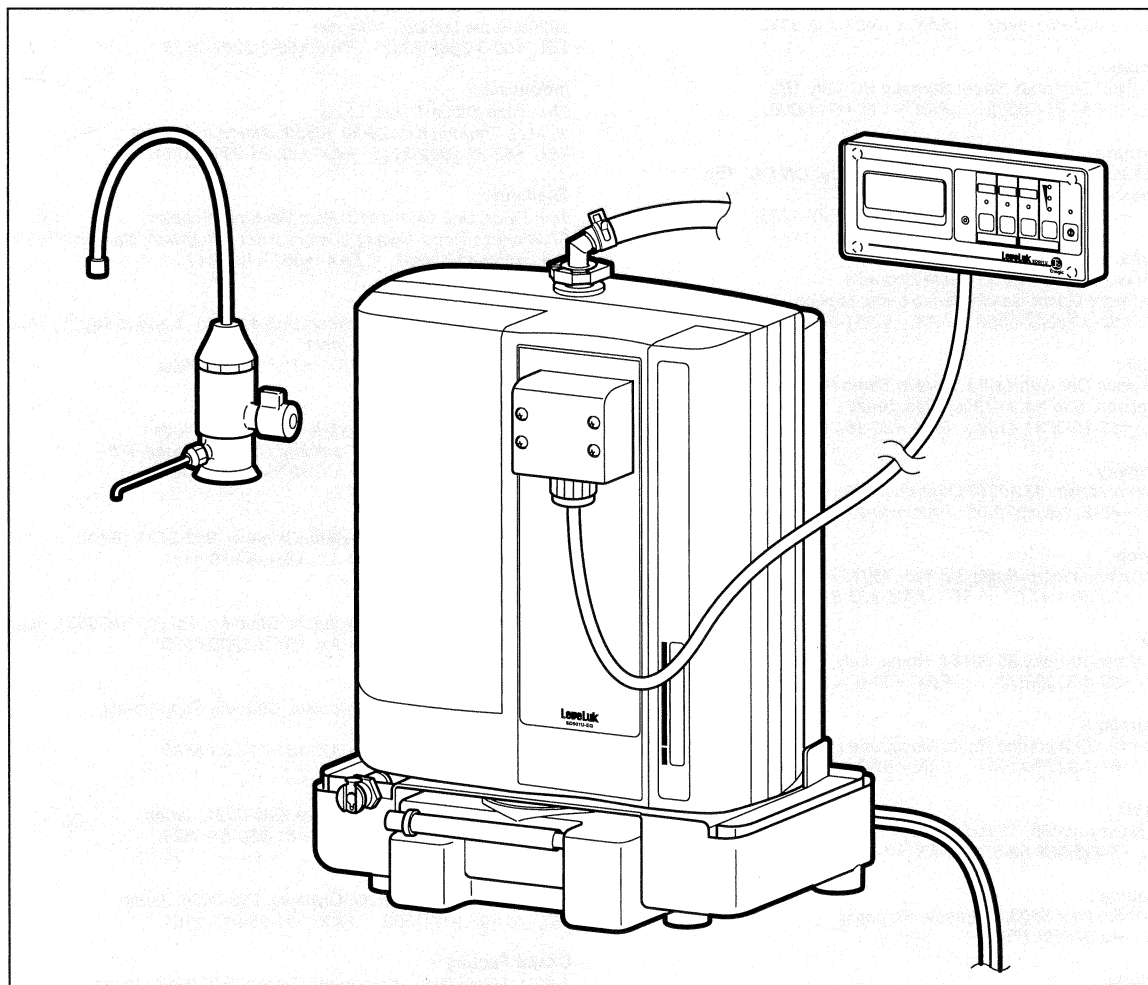
LIFE SCIENCE WATER APPARATUS

**LeveLuk** SD501U

**Continuous Ionized KANGEN and  
Strong Acidic Water Generator**

# Operation Manual

- Please read this manual carefully and thoroughly before operation
- This unit must be used correctly, according to the manufacturers instructions
- Please keep this manual in a safe place for future reference



Thank you very much for purchasing our <LeveLuk SD 501U (Under sink type)>.

Please read through the Operation Manual carefully for your safety before using the product.

Please keep this manual in a safe place for future use.

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# ■ IMPORTANT SAFEGUARDS

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## • READ ALL INSTRUCTIONS BEFORE USING:

**DANGER** – 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.

1. A product should never be left unattended when plugged.
2. Close supervision is necessary when this product is used by, or near children or invalids.
3. Use this product only for its intended use as described in this manual. Do not use attachments for other uses not recommended by the manufacturer.
4. Never operate this product if it has a damaged cord or plug, not working properly, has been dropped or damaged, or has been 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 foreign object(s) into any openings or hose(s).
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

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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 with 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 factory equipped with a specific electric cord and plug to permit connection to a proper electric circuit. Make sure that the product is connected to an outlet having the same configuration as the plug. No adapter should be used with this product. Do not modify the plug provided — if it will not fit the outlet, have the proper outlet installed by a qualified electrician. If the product must be reconnected for use on a different type of electric circuit, the reconnection should be made by qualified service personnel.

**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 damaged cord.



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# ■ Introduction

## • Indicators used in this manual

The marks in this manual indicate areas of importance, and are explained below. Be sure to read the Warning and Caution instructions carefully.

### Level of danger



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.



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.

- \* All the precautions described here are classified as “⚠ Warning” and “⚠ Attention”.
- Any potential hazardous situation which could result in death or serious physical injury are referred to under the sign “⚠ Warning”.
- However, other potentially hazardous situations referred to under the sign of “⚠ Attention” can also present serious danger, depending on the case and situation.
- All the precautions, therefore, should be observed strictly.
- \* The maker of this product is not responsible for any damage to the product or accidents caused by improper use or by disregarding the precautions mentioned in this manual.
- \* After reading this manual, please keep it in a safe place for future reference.

## ■ Description of signal marks

Mark	Title	Significance
	General	Used to indicate general precautions, warnings and dangers.
	General	Used to notify general prohibition precautions, warning and danger.
	General	Used to describe behavior of general users.
	Open flames	Used to warn against any behavior that could result, under certain conditions, in the unit catching fire as a result of proximity to flame.
	Prohibition of use at water splashing place, such as, bath or shower room.	Used to prohibit use of the product through using near baths or in showers, or any place where the unit may come in contact with water, the unit is not waterproof.
	Disassembly	Used to warn against self-repair or taking apart the unit by oneself, which could cause electric shock or other injuries.
	Unplugging	Used to indicate to the user when it is necessary to unplug the product, especially when it is showing signs of being damaged, or when a thunderstorm is expected.

## ■ Precautions on the use of Beauty Water and Strong Acidic Water as well as KANGEN Water



### Warning - Please observe carefully -



Please  
observe

- Please consult with your physician before using Beauty Water or Strong Acidic Water if you have any of the following.
  - Sensitive skin
  - Allergies
- If you experience any skin irritation after using any type of Beauty Water, discontinue use and consult with your physician.
- Please take the following precautions prior to drinking KANGEN Water:
  - Do not take medication with KANGEN Water.
  - Do not drink KANGEN Water if you have kidney problems such as kidney failure or trouble processing potassium.
  - If you experience any discomfort please discontinue use and consult with your physician.
  - If you are under the care of a physician please consult with them prior to drinking KANGEN Water.
  - Do not use KANGEN Water with baby formula or baby foods.



### Attention



Prohibited

- Do not drink any of the following types of water; they may negatively affect your health.
  - Strong Acidic Water
  - Beauty Water
  - Cleaning cycle water
  - Water containing pH test liquid
  - Strong KANGEN Water during the production of Strong Acidic Water
  - Water being discharged from the secondary water hose
- When drinking KANGEN Water, adjust the pH value to 9.5 or lower. It is not recommended to drink water with a pH over 10.0. Check the pH regularly.
- Please drink the KANGEN Water as soon as possible after it is made.
- Do not use KANGEN or Beauty Water in fish bowls or aquariums; changes in pH may kill the fish.
- Do to the fact that copper containers are acid-sensitive and aluminum containers are alkaline-sensitive they should not be used.

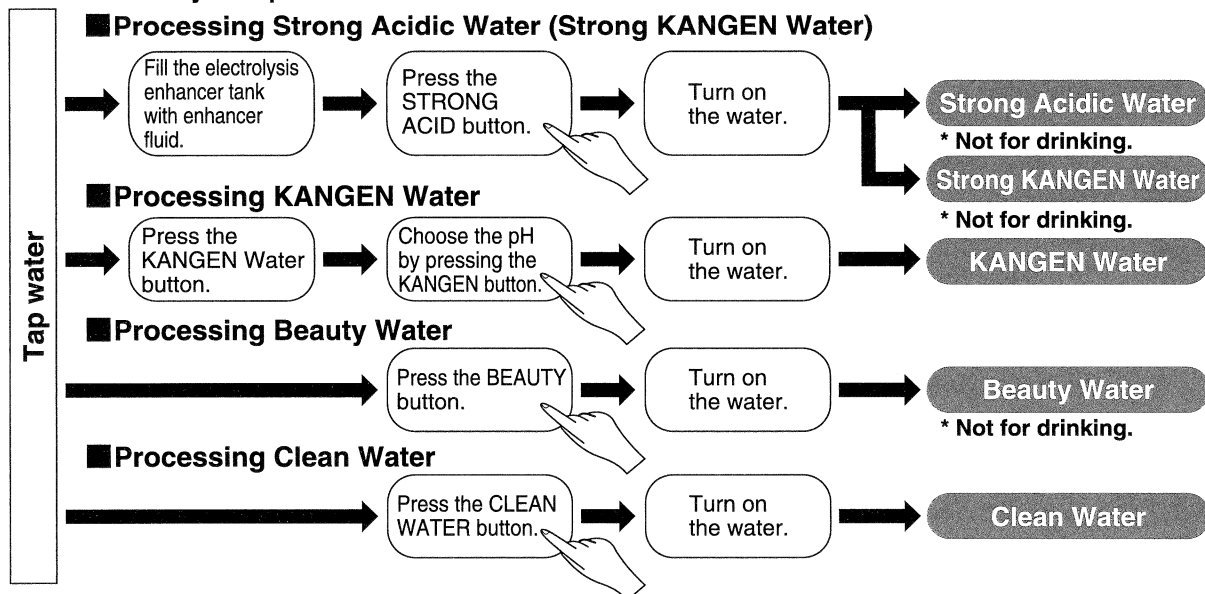


Please  
observe



- Use containers made of glass, plastic, ceramic, or other non-corrosive materials when storing Strong Acidic Water. Metal containers will corrode when in contact with Strong Acidic Water and should never be used.
- Store Strong Acidic Water in a tightly sealed container that is impermeable to light. Use stored contents within one week.
- Metal knives or spoons cleaned with Strong Acidic Water or Beauty Water must be dried. Rust can develop if the utensils are left wet.
- Store KANGEN Water in a sealed container and keep refrigerated. Use the contents within 3 days.
- Run water through the machine for 3 or more minutes when you first use a new filter.
- Let the water flow for more than 10 seconds before your first use of the day.
- If the unit has been unused for 2~3 days, let the water flow for more than 30 seconds.
- Please follow local laws and regulations when disposing of used filters.

# Features

- This product is capable of producing 5 types of water, **Strong Acidic Water**, **Strong KANGEN Water**, **KANGEN Water**, **Beauty Water**, and **Clean Water**. All at a touch of the button to suit your specific needs.



- 5 types of water, subdivided into 7 according to pH, are available to suit your specific need.

Processed water	pH level	Use	ATTENTION
KANGEN Water	pH9.5	<b>Making herb tea, mild herb tea</b> Most suitable for making oolong tea.	Not to be used with medicine. When taking medicine, select the Clean Water mode. 
	pH9.0	<b>Making green tea or coffee and cooking rice</b> Your green tea or coffee will taste mellow, and your rice will cook soft and full.	
	pH8.5	<b>Your Starting Point</b> This pH level is recommended for people to get used to KANGEN Water.	
Clean Water	pH is same as tap water.	<b>To be taken with medicine or preparing baby formula</b> This clean water can be used as water to be taken with medicine as well as water you can drink every day.	Not for drinking. 
Beauty Water	pH6.0	<b>For your skin care</b> To be used as astringent water, bath water.	
Strong Acidic Water	pH2.5	<b>To be used as disinfectant or cleaning</b> This water washes clean your kitchen utensils such as cooking knives, cooking boards, and washes cups and saucers stain-free. It also destroys pathogenic bacteria on fruit.	
Strong KANGEN Water	pH11.0	<b>Has the power to dissolve tough stains</b> Use the added power of Strong KANGEN Water to remove tough Kitchen grease stains or cleaning floors. Use to wash fish, meat, and vegetables.	

## Warning

(For producing various types of water, see "Usage" on P.16 and on.)



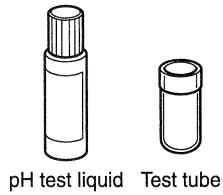
When producing Strong Acidic Water, please make sure the room is well ventilated and avoid prolonged breathing of the vapors.

# Accessories

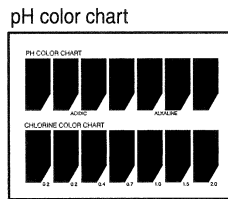
## ⚠ Attention

- Caution: Check if all the accessories for installation are contained, at the time of unpacking, according to the “Accessories list” on page 8 of the Installation Manual.

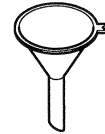
### • Accessories



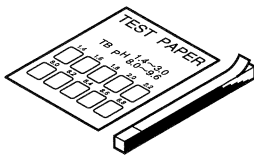
① pH test liquid set



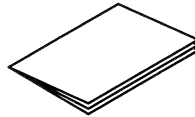
② Electrolysis enhancer



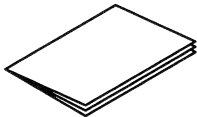
③ Funnel



④ pH test paper



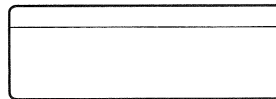
⑤ Operation manual



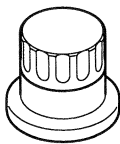
⑥ Installation Manual



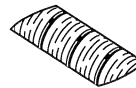
⑦ Water filter change label



⑧ Emergency precautions seal



⑨ Cleaning powder Unit (CPU)

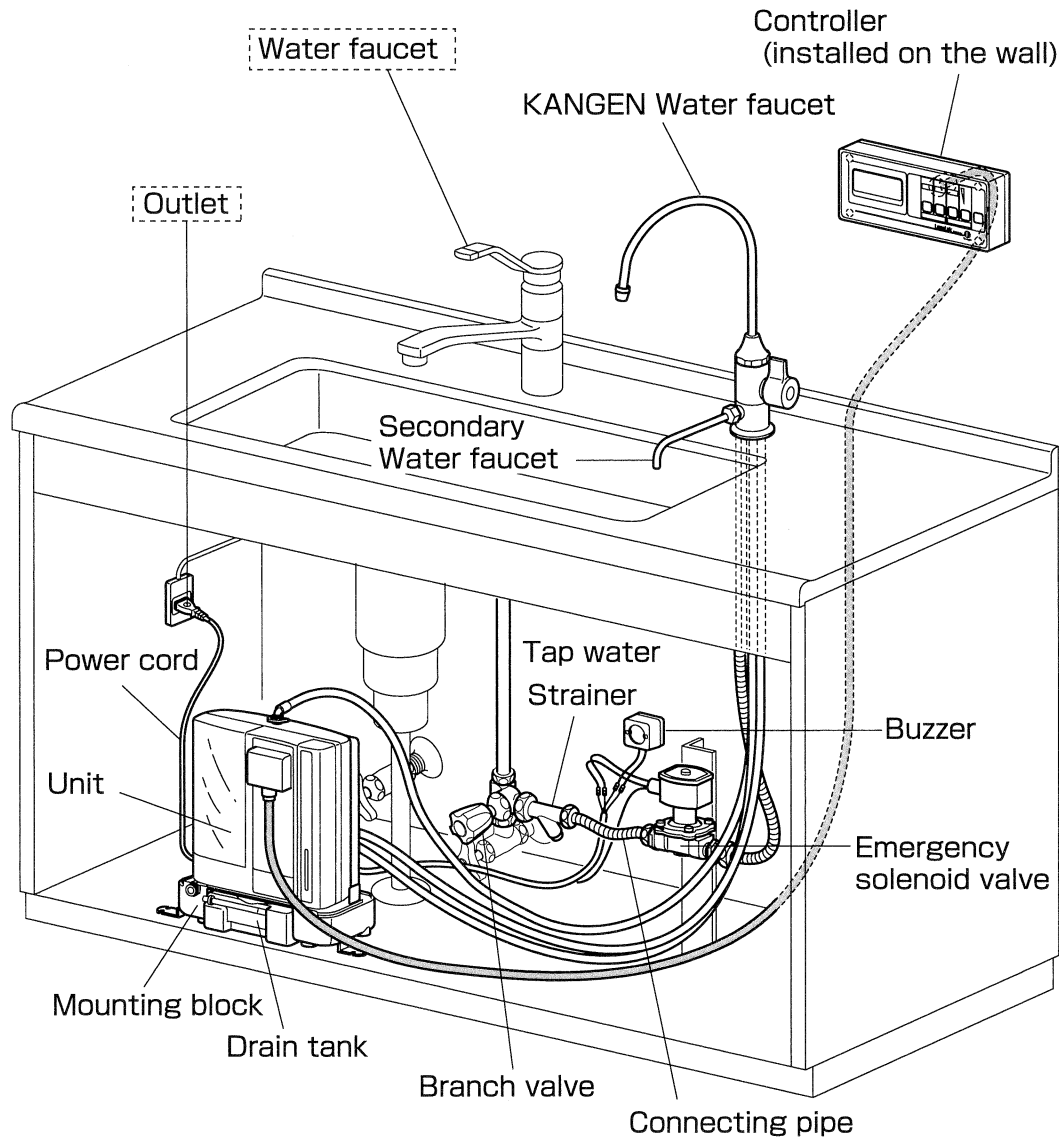


⑩ Cleaning powder

## ■ Name of each part

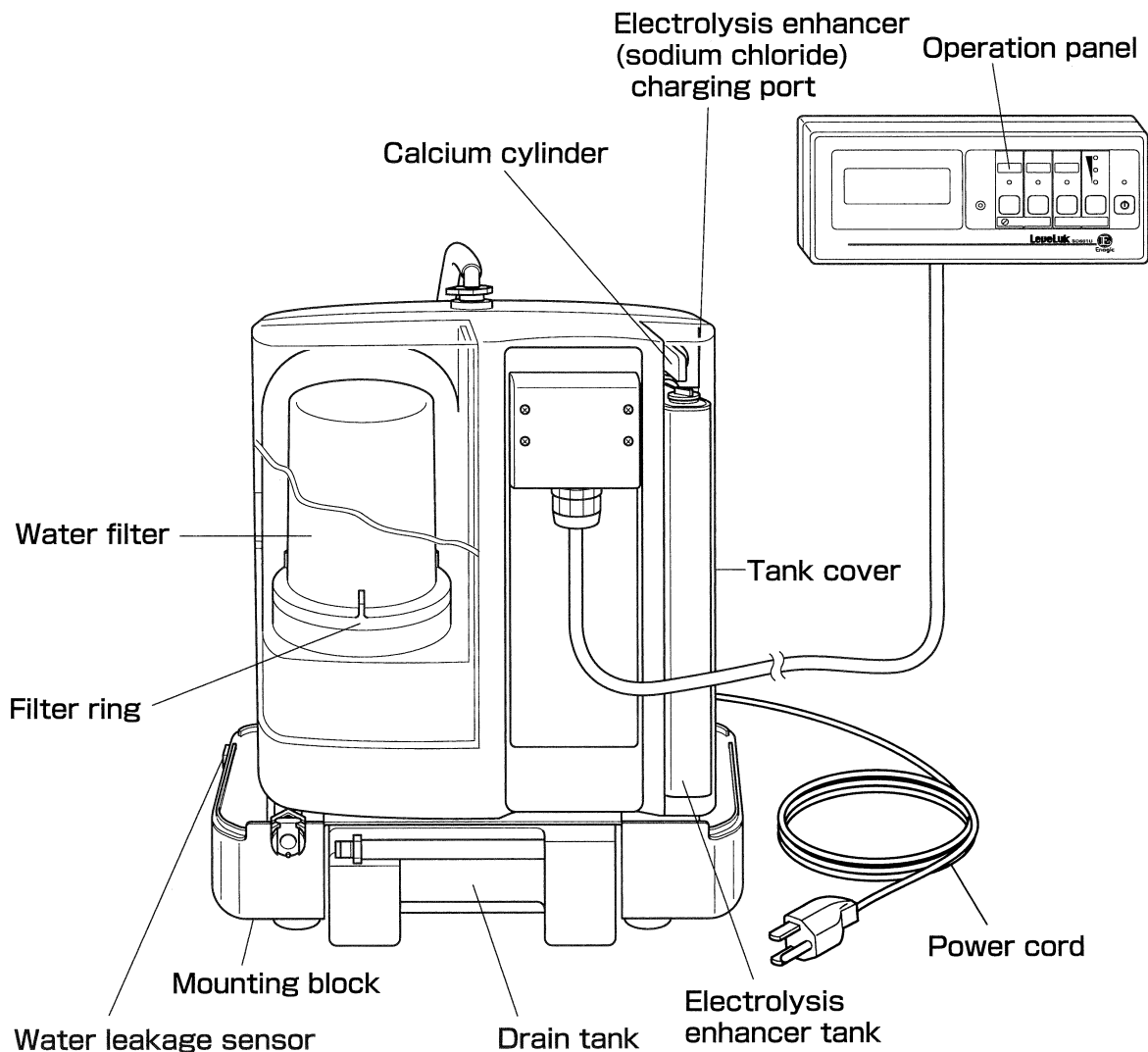
- The main unit is installed under the sink and is connected to the special faucet for KANGEN Water.  
( Before installarion, refer to the installation Manual. )

### Example of installation



### ⚠ Attention

For connection to water mains, the detachable new hose-sets supplied with the appliance are to be used and that old hose-sets are not to be reused.



#### Water leakage sensor

If any accident occurred to cause water leakage outside the unit, the water leakage sensor mounted on the mounting block detects the error and sounds a buzzer. At the same time, it causes the emergency solenoid valve to stop water feeding.

#### Drain tank

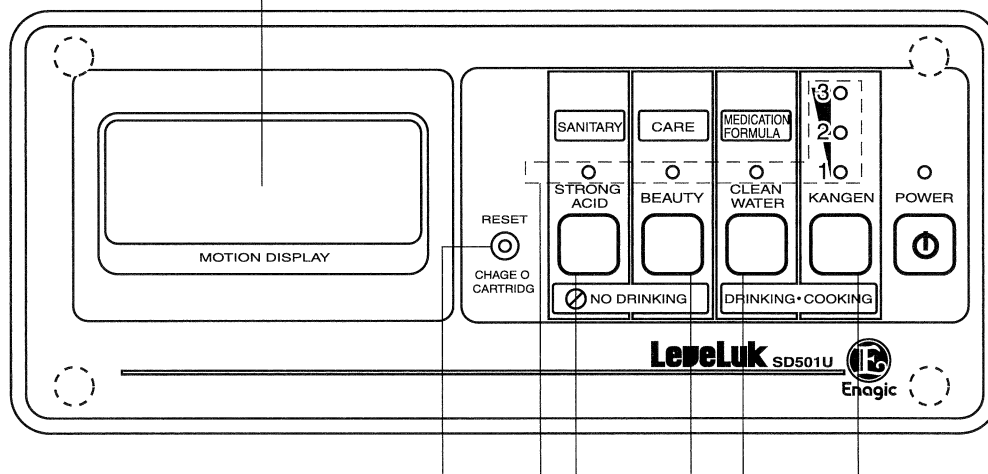
Before replacing the water filter or cleaning filter or when adding calcium, be sure to drain water inside the unit to the drain tank. (See p.24 and 25.)

#### Electrolysis enhancer tank

## ■ Operation panel

**LCD display** (☞ Refer to P.11)  
Displays current operating status.

**Power button / lamp**  
Used to turn power on and off.  
When on, the power lamp lights up red.



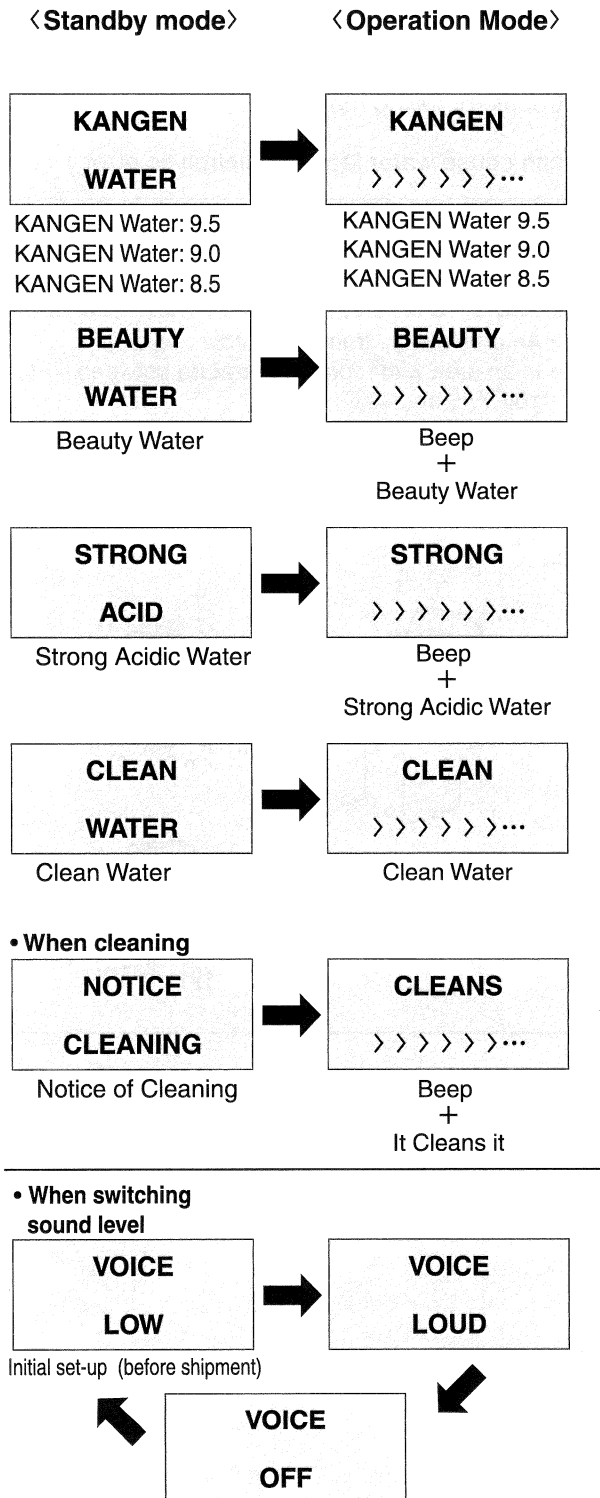
**Water filter reset button**

**Processed water select button**

**Processed water indicator lamp**



## ■ LCD messages and voice guidance



〈Other modes〉

- When water flow is too fast ( Beauty Water and Strong Acidic Water modes only)

**OVER FLOW**  
Beep +  
Decrease Flow

- When running out of electrolysis enhancer or no electrolysis enhancer, while Strong Acidic Water production is in process

**RE-FILL SOLUTION**  
Beep +  
Re-Fill Specified Solution

- When pressing the water filter reset switch

**FILTER RESET**  
Beep +  
Filter Reset

- Displays for 3 seconds after plugging in the power cable.

○○○○○○H  
○○○○○○H

Switch-on operation is not possible while this is displayed. Press the Power Button when this display disappears.

- When water supply (pressure) is insufficient

**INCREASE FLOW**  
Beep +  
Increase Flow

- When the unit is overheated

**HEAT PROTECT**  
Beep +  
Heat Protection  
Close the faucet and switch it off. Then wait for more than 30 minutes or longer depending on the environment.

- When hot water enters

**HOT RUN PROTECT**  
Beep +  
Hot Run Protection

- When water filter needs to be replaced

**REPLACE FILTER**  
Beep

# ■ Preparations

## ■ Selecting a location

### ⚠ Attention

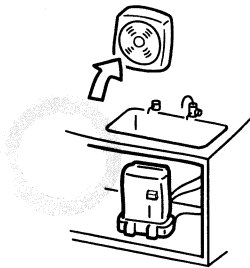


Please observe

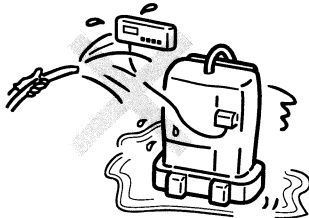
- Do not place anything on the machine. ( Unit trouble or falling may result )
- Do not close bottom discharge port. ( Failure can cause water leak or electrolytic error )

### • Install at the following location

- In a well ventilated area

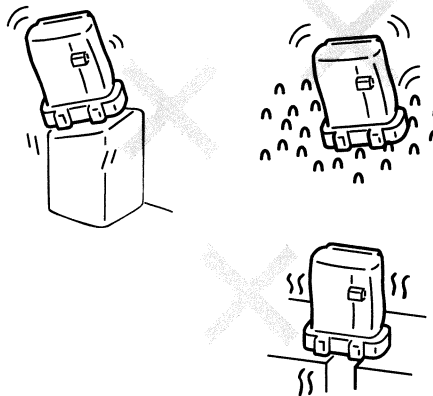


- An area free from splashing water, steam, chemicals and dust.



- An area away from flammable objects.
- In an area with room temperature between 41 to 104° F/ 5 and 40°C.

- On a flat stable area capable of supporting the weight of the machine.



## ■ Installing the unit

- When installing the unit, please refer to the attached "Installation Manual".
- Please note that we are not responsible for any failure or accident attributable to incorrect installation by user.
- This unit is for electrolytic water generator for domestic use. Never use this unit for industrial purpose.

## About the electric wiring

### ■ Please use the outlet of AC120V · 60Hz for household use.

\* Using improper voltage will void the warranty.

### Warning



Prohibited

- Never bend, pull, twist, or bundle the power cord. Do not lay heavy objects on top of the cord or clamp the cord: This may damage the cord, and cause electric shock that may lead to hazardous fire.
- Do not use a damaged power cord or loosely fitted one. It may cause electric shock, short circuit or fire.
- Stapling the power cord is strictly prohibited. This will cause irreparable damages to the cord and possibly fire.
- Do not plug too many plugs into one outlet.
- When cleaning the outlet, first disconnect the power plug. Dust on outlets can cause fire.
- Connect or disconnect the power plug by holding the plug instead of the cord. Pulling the cord can cause breakage, fire, and/or electric shock.
- Use only the proper power supply/ voltage. Using improper power source/voltage can cause fire or electric shock.

### Attention



Please observe

- Insert the power plug and the connector firmly.  
If the power plug and connector is not inserted properly, electric shock or a fire caused by heat generation may result.
- Be sure to check that all buttons work properly.
- Please bundle the cord during storage to avoid damage.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid hazard.






- A wet plug can cause electric shock.  
If the power plug is severely wet
  - (1) Disconnect the plug from the outlet
  - (2) Wipe the water off the plugs
  - (3) Consult your local dealer for repairs
- Never handle power plugs with wet hands. If power plug is wet, first disconnect it completely from the outlet and wipe it dry. Failure to follow these procedures may result in electric shock.
- Always unplug this product after use.



# Usage

■ This processor operates in four basic modes to process 5 types of water as follows:  
**KANGEN Water** , **Beauty Water** , **Strong Acidic Water** , **Strong KANGEN Water** and **Clean Water** .

## ■ Basic modes of operation

Water type	Control panel and faucet operation	Processed water type and water collection point
<b>① KANGEN Water</b>   <b>Warning</b> Not to be taken with medicine.	Press the <b>(KANGEN)</b> button and turn on the faucet. * To change the pH value, press the <b>(KANGEN)</b> button first and select the value you wish to get. (3 settings) pH 9.5      ③ Press the button. ↑ pH 9.0      ② Press the button. ↑ pH 8.5      ① Press the button. ↑ (REPEAT)	<b>KANGEN Water</b> (discharged from the KANGEN (pH8.5/pH9.0/pH9.5) Water faucet )  <b>Beauty Water</b> (discharged from the secondary water faucet) * Not for drinking.
<b>② Clean Water</b>	Press the <b>(CLEAN WATER)</b> button and open the tap water faucet.	* When taking medicine, select the <b>Clean Water</b> mode.  <b>Clean Water</b> (discharged from the KANGEN (pH7.0) Water faucet) * Water discharged from the secondary water hose is also clean, but collect Clean Water from the flexible pipe.
<b>③ Beauty Water</b>   <b>Warning</b> Not for drinking.	Press the <b>(BEAUTY)</b> button and open the tap water faucet.	<b>Beauty Water</b> (discharged from the KANGEN (pH6.0) Water faucet) <b>KANGEN Water</b> (discharged from the secondary water faucet) * Not for drinking.
<b>④ Strong Acidic Water</b> (*To be discharged simultaneously with strong KANGEN Water)	Check the level of the fluid in the electrolysis enhancer tank and press the <b>(STRONG ACID)</b> button.	<b>Strong Acidic Water</b> (discharged from the (pH2.5) secondary water faucet) * Not for drinking.
<b>⑤ Strong KANGEN Water</b>   <b>Warning</b> Not for drinking.	Open the tap water faucet.	<b>Strong KANGEN Water</b> (discharged from the KANGEN (pH11.0) Water faucet) * Not for drinking.

## Attention

 Prohibited	<ul style="list-style-type: none"> <li>• Different operating procedures are required to produce different types of water.</li> <li>• Procedures must be strictly followed.(Refer to P.18)</li> <li>• Improper operation or setting may result in faulty operation.</li> </ul>
 Please observe	<ul style="list-style-type: none"> <li>• Run water through the machine for 3 or more minutes when you first use a new filter.</li> <li>• Let the water flow for more than 10 seconds before your first use of the day.</li> <li>• If the unit has been unused for 2~3 days, let the water flow for more than 30 seconds.</li> </ul>

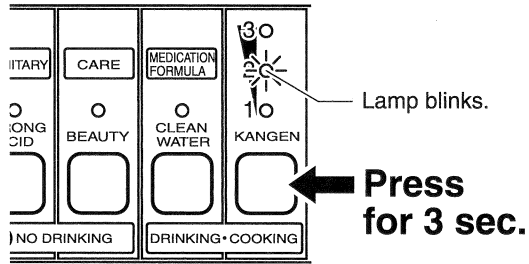
# Changing the operation sound level

■ The sound level can be changed by selecting the button on the operation panel.

1

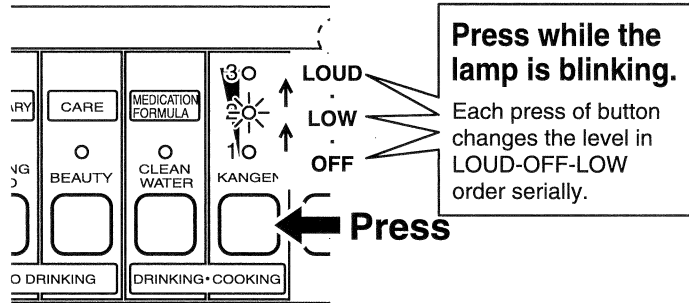
With the power off, press the **KANGEN** button for about 3 seconds to select the sound level adjust mode.

- The KANGEN Water lamp blinks.

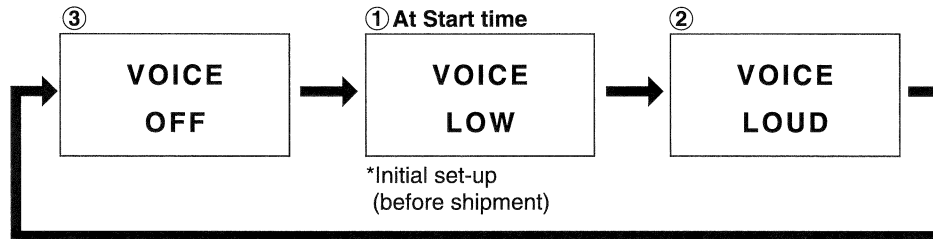


2

While the lamp is blinking, press the **KANGEN** button to select sound level.



- Message on LCD (In sound level adjust mode)



3

Once the sound level setting is complete, the power turns off after 15 seconds, or the power turns off immediately by pressing any button (such as Power, Clean Water, Beauty or Strong Acidic) other than **KANGEN** button.

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

# Producing KANGEN Water



**Caution** Do not take medicine with KANGEN Water.

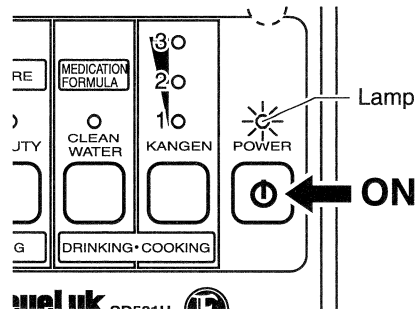
1

Press the **(POWER)** button to turn on the power.

- The POWER lamp comes on.



The button sound+Voice guidance



2

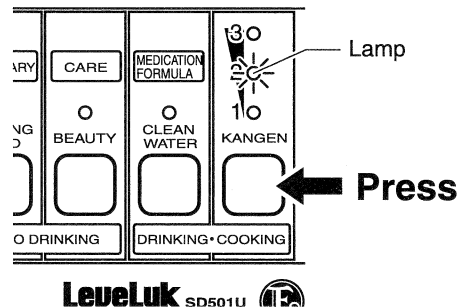
Press the **(KANGEN)** button to select the KANGEN Water mode and the pH value (pH9.5, 9.0 or pH8.5)

- Each time the button is pushed it changes over the mode serially in 3 phases and the lamp comes on.



The button sound+Voice guidance

\* The pH value varies according to local water characteristics and water pressure.



① To begin processing water turn on KANGEN Water faucet.



## Attention

- If the water flow (pressure) is too low, the voice guidance and alarm sound starts and the message appears on the display. (See P.11)
- \* Increase water flow.



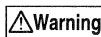
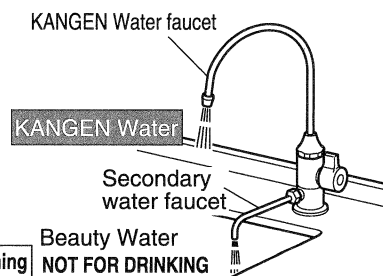
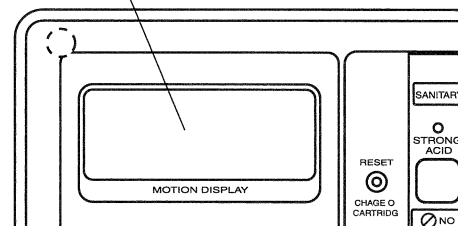
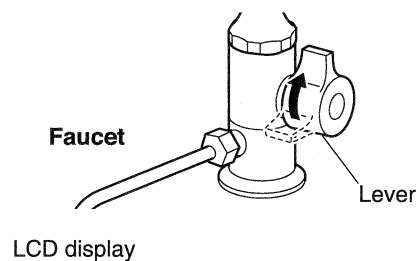
3

② Processed water will be discharged.

- **KANGEN Water** is discharged from the flexible pipe.
- Beauty Water is discharged from the secondary water hose.



Voice guidance



**Warning**  
Beauty Water  
NOT FOR DRINKING

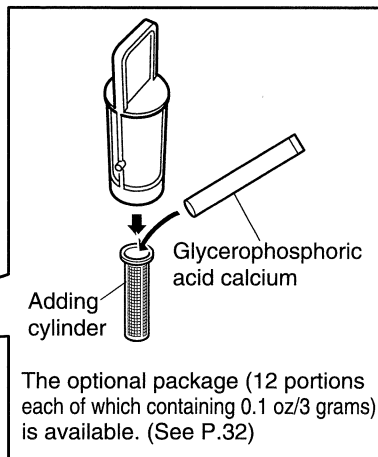
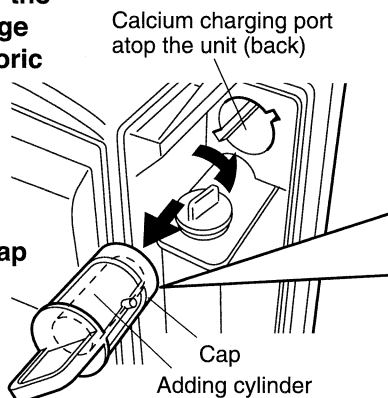
#### How to stop operation

4

- Turn off the faucet to stop production of water.  
(If you wish to produce water continuously, follow step 3 of the operation procedure.)

### For adding glycerophosphoric acid calcium (option)

- Before adding glycerophosphoric acid calcium, be sure to drain the water from the unit (See p.24 to 25).
- Take out the tank cover and turn the cap of calcium charging port located at right top corner of the unit clockwise to remove it. Charge about 2 grams of glycerophosphoric acid calcium into the adding cylinder (to about 80% volume of the total cylinder capacity).



- Fix the charging cylinder to the cap and fix it to the original position on the body. Make sure, at this time that the thumbscrew knob is fixed vertically.

#### ⚠ Caution

- Glycerophosphoric acid calcium increase the calcium concentration in the KANGEN Water.
- This process also increases the pH concentration: Set the proper pH level of the unit by pressing the **KANGEN** button when adding glycerophosphoric acid calcium.
- If glycerophosphoric acid calcium is used, regular cleaning of the calcium cylinder is required so that no melted calcium remains inside the unit.

### How to measure pH value in KANGEN Water

- Measure the pH value of the KANGEN Water by using the pH test liquid (attached).

Optimum pH

Potable range...pH8.5~9.5

#### ⚠ Caution

- The pH value varies according to the local water characteristics and water pressure.

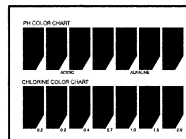
#### pH test liquid set

1. Put KANGEN Water in the attached test tube about 0.8inch deep.
  - The pH value is unsteady in water initially processed. Therefore, flow the water for approximately 10 seconds before sampling.

2. Add about 1-2 drops of test liquid in the tube and shake the content well.


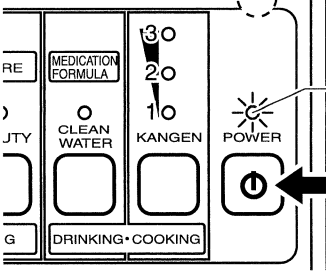

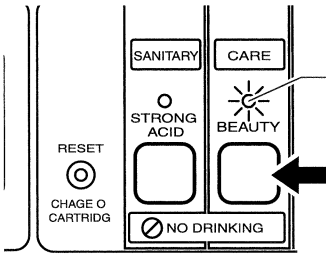

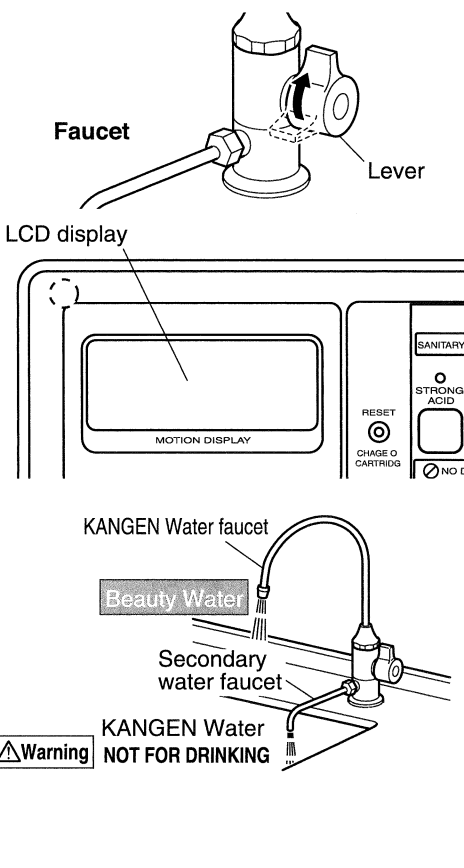
3. Compare the color of the water in the test tube with that of the color chart paper and check the pH concentration.

pH color chart



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

# Producing Beauty Water ⚠ Warning This is not for drinking.

1	<p>Press the <b>POWER</b> button to turn on the power.</p> <ul style="list-style-type: none"> <li>The POWER lamp comes on.</li> <li> The button sound+Voice guidance</li> </ul>	
2	<p>Press the <b>BEAUTY</b> button.</p> <ul style="list-style-type: none"> <li>The BEAUTY lamp comes on.</li> <li> The button sound+Voice guidance</li> </ul>	
3	<p>① To begin processing Beauty Water turn the faucet on.</p> <p><b>⚠ Attention</b></p> <ul style="list-style-type: none"> <li>When the flow rate (pressure) is too low, a message will appear on the display and the voice guidance and alarm will become audible. (See P.11)</li> </ul> <p style="text-align: center;">↓</p> <p>② <b>Processed water will be discharged.</b></p> <ul style="list-style-type: none"> <li><b>Beauty Water</b> is discharged from the top discharge port and a beeping sound will be made when water is production.</li> <li>KANGEN Water is discharged from the bottom discharge port.</li> <li> Voice guidance + Alarm sound</li> </ul>	
4	<p><b>How to stop operation</b></p> <ul style="list-style-type: none"> <li>Turn off the faucet to stop production of water. (If you wish to produce water continuously, follow step 3 of the operation procedure.)</li> </ul>	



## Producing Strong Acidic Water/Strong KANGEN Water

### ⚠ Warning

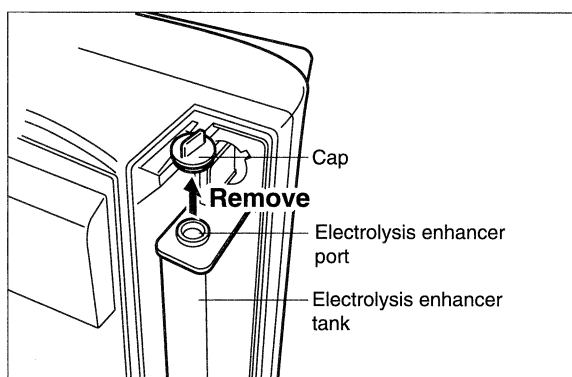
- When producing Strong Acidic Water, please make sure the room is well ventilated and avoid prolonged breathing of the vapors.

### ⚠ Attention

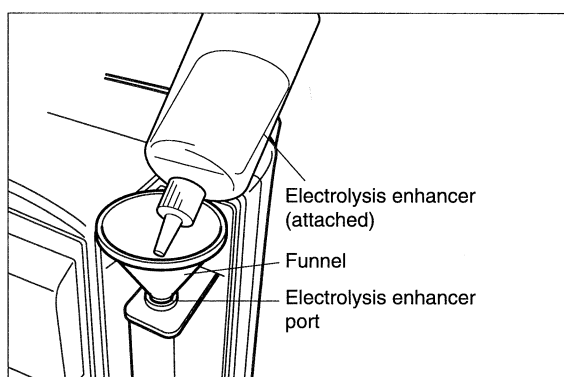
- To produce Strong Acidic Water, be sure to put the electrolysis enhancer in the tank unit before operating.
- Use genuine electrolysis enhancer recommended by manufacturer.
- While cleaning, let the water flow freely.

### ■ How to add electrolysis enhancer (attached)

① Take out the tank cover and remove the cap of the electrolysis enhancer port.



② Place the electrolysis enhancer into the tank from electrolysis enhancer port.



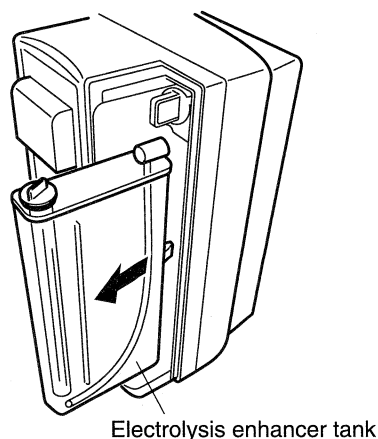
③ Replace the cap on the charging port and tighten it.

### ⚠ Attention

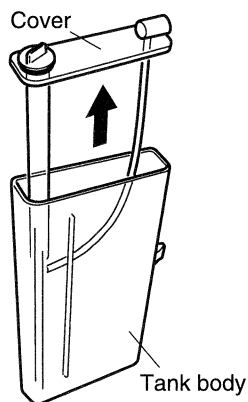
- After producing Strong Acidic Water, select another mode and continue to run the water until the cleaning mode stops. (about 30 seconds)
- Clean the electrolysis enhancer tank from time to time.

#### <How to clean electrolysis enhancer tank>

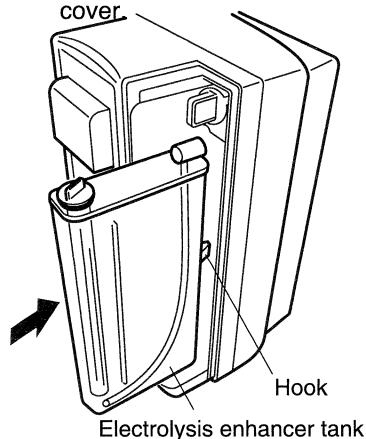
① Remove the tank cover and take out the electrolysis enhancer tank.


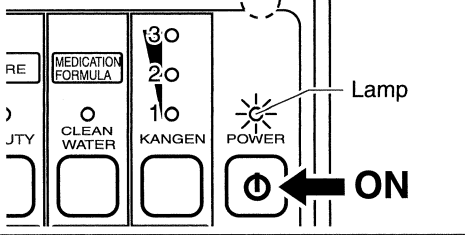

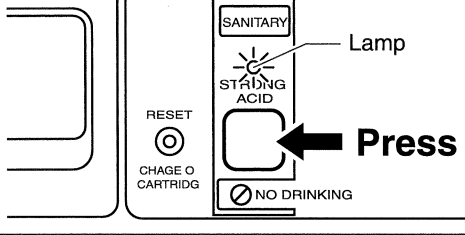




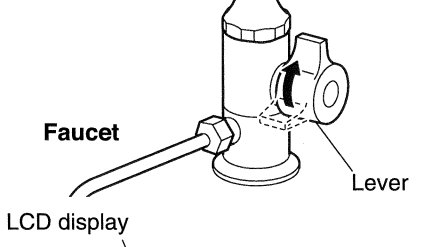
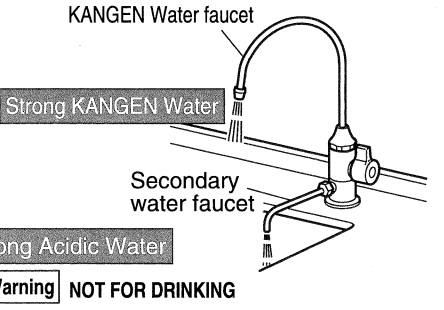


② Take off the cover from the electrolysis enhancer tank and clean the tank body.



③ Replace the electrolysis enhancer tank in the original position and replace the cover.





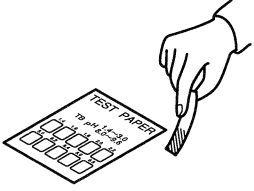
1	<p>Press the <b>(POWER)</b> button to turn on the power.</p> <ul style="list-style-type: none"> <li>The POWER lamp comes on.</li> </ul> <p> The button sound+Voice guidance</p>	
2	<p>Press the <b>(STRONG ACID)</b> button.</p> <ul style="list-style-type: none"> <li>The STRONG ACID lamp comes on.</li> </ul> <p> The button sound+Voice guidance</p>	
3	<p>①To begin processing Strong Acidic Water turn the faucet on.</p> <p> <b>Attention</b></p> <ul style="list-style-type: none"> <li>When flow rate (pressure) is too low, a message will appear on the display and the voice guidance and alarm will become audible. (See P.11)</li> <li>* Increase water flow.</li> <li>When you use enhancer fluid for the first time or after refilling the enhancer tank, the machine will display "Re-Fill Solution" it will take about 20 seconds for the enhancer fluid to enter the electrolysis chamber.</li> <li>If the indication, "RE-FILL SOLUTION." does not go away in about 30 seconds lower the flow rate.</li> </ul> <p style="text-align: center;">↓</p> <p>②Processed water will be discharged.</p> <ul style="list-style-type: none"> <li><b>Strong Acidic Water</b> is discharged from the secondary water hose and a beeping sound will be made when water is producing.</li> <li>Strong KANGEN Water is discharged from the flexible pipe.</li> </ul> <p> Voice guidance+Alarm sound</p> <p> <b>Attention</b></p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p> Please observe</p> <ul style="list-style-type: none"> <li>If the electrolysis enhancer is too low, the voice guidance and alarm sound starts beeping and the message appears on the display. When this happens refill the electrolysis enhancer.</li> <li>After producing Strong Acidic Water, select another mode and continue to run the water until the cleaning mode stops. (about 30 seconds)</li> </ul> </div>	 

4	<div data-bbox="178 163 516 214" data-label="Section-Header"> <p><b>How to stop operation</b></p> </div> <ul style="list-style-type: none"> <li>• Turn off the faucet to stop production of water. (If you wish to produce water continuously, follow step 3 of the operation procedure.)</li> </ul>
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## How to measure pH value in Strong Acidic Water

● Measure by book pH test paper (attached)


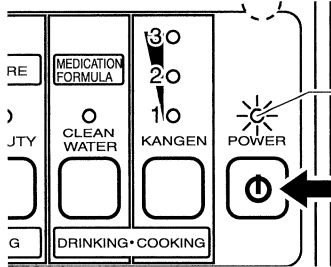

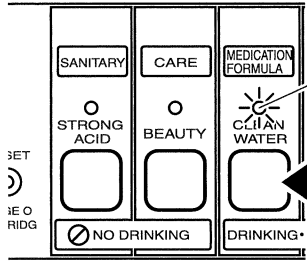

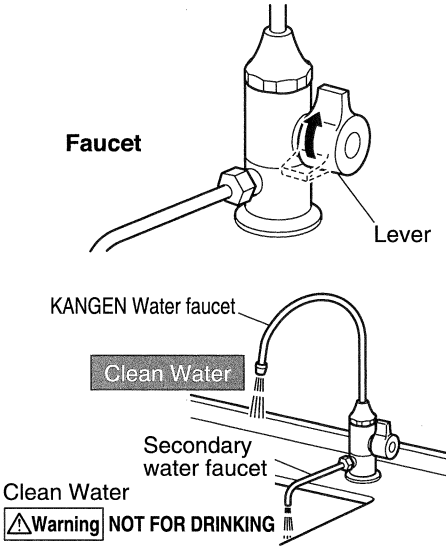
### ■ How to use book pH test paper

1	<p>Carefully dip the pH test paper in the water sample (less than half a second). Then take it out immediately.</p> 
2	<p>Shake the pH test paper gently to remove excess water.</p> 
3	<p>Check the color of the wet portion of the paper to the standard color chart.</p> <p>*Color comparison and determination must be done in a brightly lit place.</p> 

## Attention

 <p>Please observe</p>	<ul style="list-style-type: none"> <li>• The pH test liquid (red) can not measure the pH below. For measuring the pH value of Strong Acidic Water, use the pH test paper.</li> <li>• The pH test paper can only be used to check the pH value of Strong Acidic Water.</li> <li>• Do not lick the pH paper. If you do, rinse out your mouth and gargle immediately.</li> <li>• Dipping the test paper too long (longer than 0.5 sec) causes the pigment to be dissolved into the sample water resulting in inaccurate test results.</li> <li>• The consequence of leaving the pH test paper exposed to air for a long period of time may lead to inaccurate results.</li> <li>• The sample water must be kept at room temperature in order to prevent pigment from diffusing too rapidly.</li> <li>• The pH test paper may look different depending on storage conditions. This will not affect any of its properties or abilities.</li> <li>• The pH test paper must be kept in cool, dry, and dark places.</li> </ul>
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# Producing Clean Water



1	<p>Press the <b>POWER</b> button to turn on the power.</p> <ul style="list-style-type: none"> <li>The POWER lamp comes on.</li> </ul> <p> The button sound+Voice guidance</p>	 <p>Lamp</p> <p>ON</p>
2	<p>Press the <b>CLEAN WATER</b> button.</p> <ul style="list-style-type: none"> <li>The CLEAN WATER lamp comes on.</li> </ul> <p> The button sound+Voice guidance</p>	 <p>Lamp</p> <p>Press</p>
3	<p>①Set the lever water supply faucet open.</p> <p style="text-align: center;">↓</p> <p>②Processed water will be discharged.</p> <ul style="list-style-type: none"> <li><b>Clean Water</b> is discharged from the top discharge port.</li> <li>* Do not use Clean Water discharged from the bottom discharge port.</li> </ul> <p> Voice guidance</p> <p><b>⚠ Attention</b></p> <ul style="list-style-type: none"> <li>Use the Clean Water discharged the top discharge port.</li> <li>Do not use processed water while the LED is blinking.</li> </ul>	 <p>Faucet</p> <p>Lever</p> <p>KANGEN Water faucet</p> <p>Clean Water</p> <p>Secondary water faucet</p> <p>Clean Water</p> <p>Warning NOT FOR DRINKING</p>
4	<p><b>How to stop operation</b></p> <ul style="list-style-type: none"> <li>Turn off the faucet to stop production of water. (If you wish to produce water continuously, follow step 3 of the operation procedure.)</li> </ul>	

# Automatic Cleaning

## ⚠ Attention

- Never drink water produced during automatic cleaning.
- While cleaning, let the water flow freely.

Calcium deposited on the electrodes in the electrolysis tank may result in degraded water.  
This unit automatically cleans the tank.

1	<p>&lt;Cleaning on&gt;</p> <p> Voice guidance + Alarm sound</p> <p>&lt;Water running&gt;</p> <div data-bbox="459 485 699 625"> <p><b>CLEANS</b></p> <p>&gt; &gt; &gt; &gt;</p> </div> <p>Beep, beep, beep</p> <p>LCD display</p>	<ul style="list-style-type: none"> <li>• When the unit produces KANGEN Water, Beauty Water or Strong Acidic Water, the time for use reaches 15 minutes, and then the unit will announce Automatic cleaning.</li> <li>• Once the announcement of cleaning is made, the unit will start cleaning automatically for 30 seconds when the production of <b>KANGEN</b>, <b>BEAUTY</b>, <b>STRONG ACID</b> or <b>CLEAN WATER</b> is taking place.</li> </ul> <p><b>⚠ Attention</b></p> <p>While the unit is producing the 4 kinds of water listed above, the unit will not switch over to the automatic cleaning mode. The unit will automatically clean the next time the unit is productive.</p>
2	<p>&lt;Message informing you that the unit is cleaning &gt;</p> <p> Voice guidance</p> <p>&lt;During stand by&gt;</p> <div data-bbox="459 1136 699 1276"> <p><b>NOTICE</b></p> <p><b>CLEANING</b></p> </div> <p>LCD display</p> <p>Water producing and cleaning modes alternately displayed</p>	<ul style="list-style-type: none"> <li>• If cleaning is necessary at the beginning of the next production, the unit will issue a notification as referred on the left. The screen will display the <u>type of processed water you have selected on the LCD and the cleaning mode alternately.</u></li> </ul>

## The unit cleans automatically in the following cases:

- ① The total operating time has reached 15 minutes.  
(After producing KANGEN Water, Beauty Water or Strong Acidic Water, the unit issues a notice of automatic cleaning and puts itself in standby mode. \*Excluding Clean Water)
- ② After producing Strong Acidic Water, when producing KANGEN Water, Beauty Water or Clean Water.
- ③ When the unit is not used for 24 hours or more.

## ⚠ Attention

- When disconnecting the power plug, please disconnect the power plug after turning off power switch.

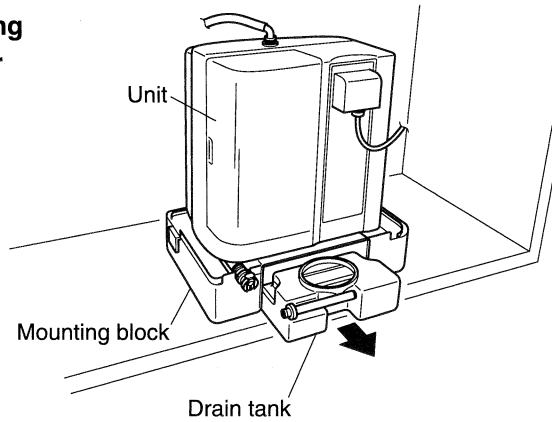
# How to drain

■ Drain the water remaining in the unit to prevent back flow of it.

Perform the following procedure before you replace the water filter or cleaning filter or when you add glycerophosphoric acid calcium.

1

**Pull out the drain water tank from the mounting block at the bottom of the unit installed under the sink.**

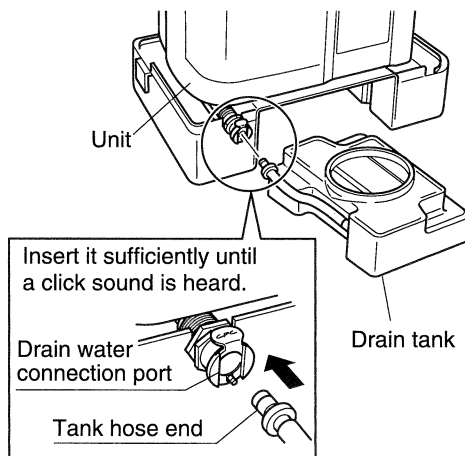


## ⚠ Attention

- Stop feeding the water before doing any work.

2

**Connect the end of the tank hose of the drain water tank to the drain water connection port at the left side of the mounting block.**



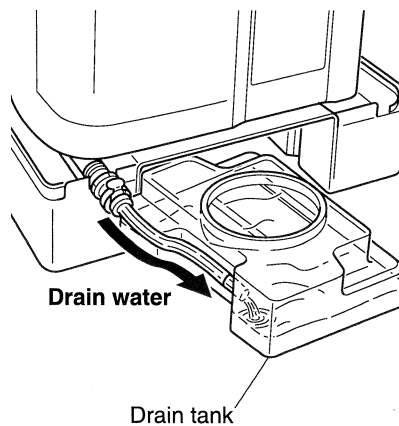
## ⚠ Attention

- Insert the end of the tank hose to the drain water connection port sufficiently until a click sound is heard.

3

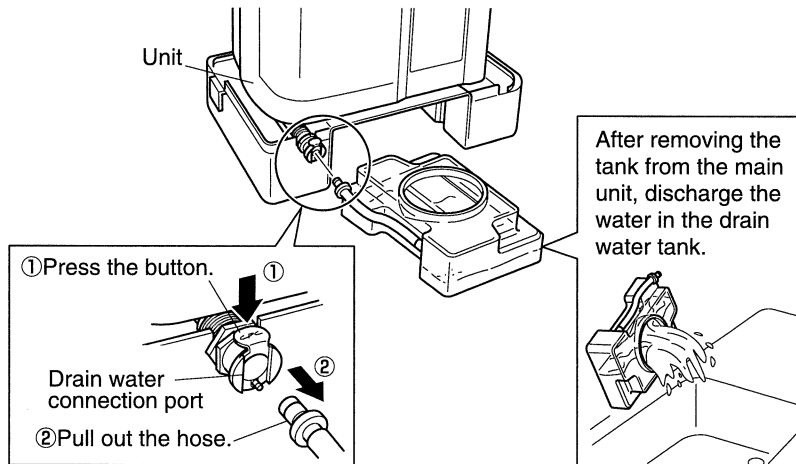
**Water remaining in the drain tank body is discharged.**

<In this situation, replace the water filter (see pages 26 to 27), cleaning filter (see p.31) or add glycerophosphoric acid calcium (see p.17).>



When draining is complete, remove the drain water tank from the unit body and discharge the water in the drain water tank.

4

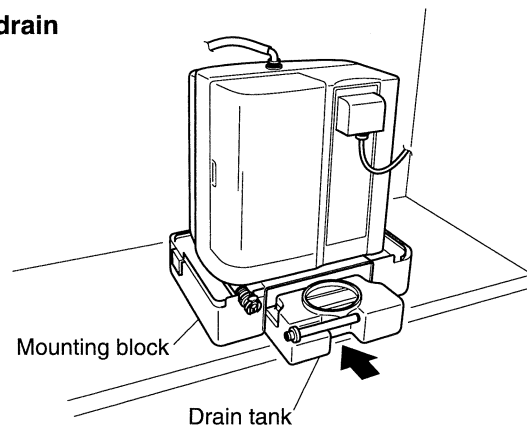


**⚠ Attention**

- When water discharging work is complete, do not forget to pull out the tank hose end from the drain water connection port.

After finishing the water draining, put the drain water tank to the original position.

5



**⚠ Attention**

- Do not forget to take out the drain water tank hose from the drain water connection port.
- \* If you forget to take out the drain water tank hose and start feeding water, then the water may flow out and the drain water tank is flooded.

# ■ Replacing the water filter

■ The water filter is a standard accessory that comes with a new unit.

(Replacement activated charcoal water filters are available. Contact your local dealer.)

**Before replacing the water filter, be sure to drain water first from the main unit referring to the 3. Water draining method (see P.24 to 25).**

While the water filter is being replaced, the unit issues a notification through the voice guidance, alarm sounds and the LCD on the operation panel when the water supply is stopped. (The processed water selected and filter replace mode signals will alternately be displayed.)

1

- When water filter needs to be replaced



Voice guidance+Alarm sound+

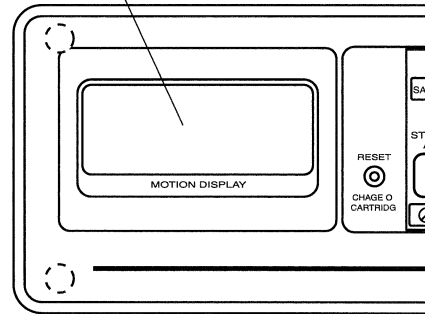
**REPLACE  
FILTER**

LCD display

## ⚠ Attention

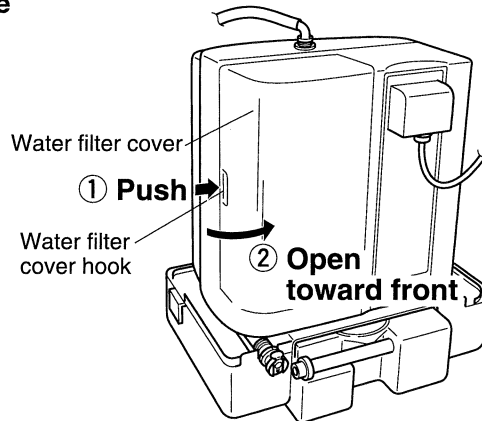
- The "REPLACE FILTER" message does not appear while water is running.
- Replace the water filter after stopping water surely.

LCD display



2

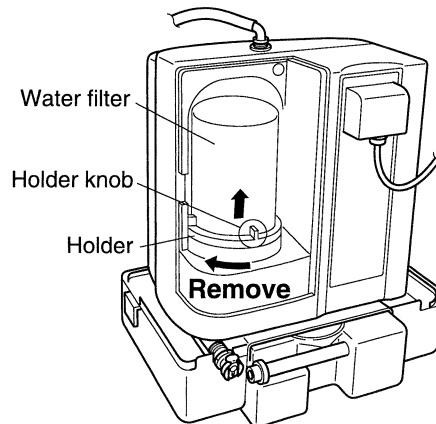
**Push the water filter cover hook on the left side of the unit and open and remove the cover.**



**Turn the water filter holder knob clockwise in about 40 degrees to unlock the holder. Lift and take out the water filter.**

## ⚠ Attention

- Be careful for the water leaking out the filter when you take out the filter.



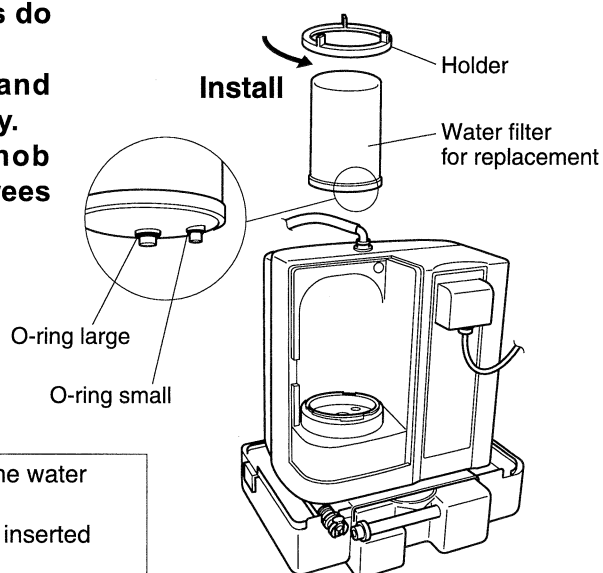


3

Ensure that the previous O-rings do not remain on the filter tray.

Confirm installation position and insert the replacement filter firmly.

Turn the water filter holder knob counterclockwise about 40 degrees to secure and lock it.



### ⚠ Attention

- Check to see if 2 O-rings are fixed on the water filter.
- Check to see if the water filter holder is inserted firmly.

4

Press the reset button of the controller.

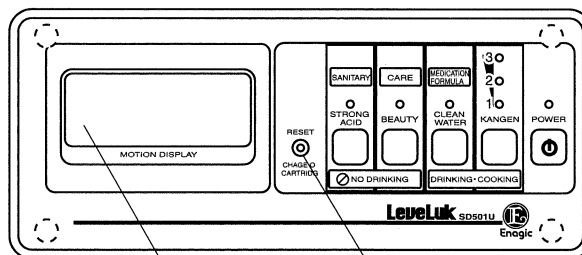
The voice guidance and alarm (Beep) sound and a message “FILTER RESET” is displayed on the LCD.

 Voice guidance + Alarm sound (Beep)



Replace the water filter cover.

Operation panel



LCD display

Water filter reset button

### ⚠ Attention

- Be sure to use our genuine water filter for replacement. (Never use other manufactures' filters, as they may cause malfunction or other troubles.)
- Pour water into the device for more than three minutes when you use the device first or when you use the new water 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 33 standard specifications for inside filtering material.)

# Safety Precautions

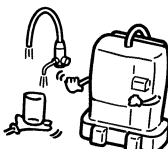
To avoid injury or accident, please adhere to the following rules.

## Warning



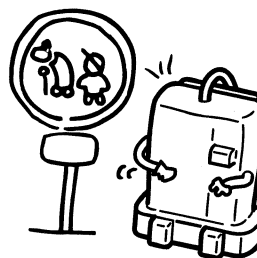
Prohibited

- People who fall under the following conditions should get doctor's or pharmacist's approval before drinking KANGEN Water generated with this water processor.
- Please take the following precautions prior to drinking KANGEN Water.
  - Do not take medication with KANGEN Water.
  - If you experience any discomfort in your health condition, please consult your physician or pharmacist.
  - If you are under a physician care, or are experiencing physical abnormality, please consult your physician or pharmacist before using.
- Use only municipally treated water approved for drinking such as tap water.
  - The unit's chlorine removal ratio and pH value may vary according to the water quality of different localities.



Please observe

- Please have senior citizens and children use this unit only under adult supervision. (Accidents may occur.)

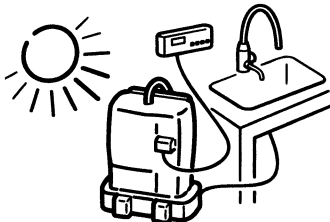


## Attention



Please observe

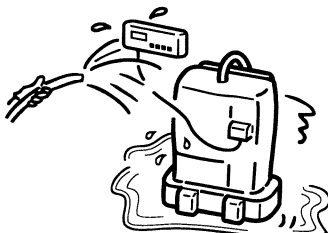
- Avoid direct sunlight.
- May cause the unit to bend or warp. -



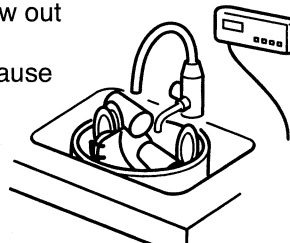
- Do not use thinner, benzine, cleansers or chlorine-based detergents for cleaning.
- May damage the unit. -



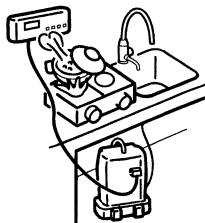
- Do not splash water or oil to the body.
- May cause fire or electric shock. -



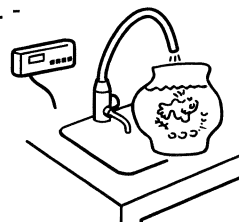
- Do not use the unit when the secondary water hose is in an elevated position.
- Water cannot flow out of the unit and therefore it will cause damages. -



- Do not place the unit near hot objects or in the presence of corrosive gas.
- May damage or cause the unit to bend or warp. -



- Do not use processed water in aquariums or give to pets.
- The change in the pH may kill fish or small living creatures. -

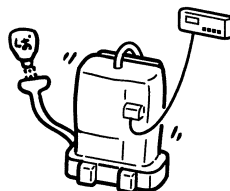


## ⚠ Attention

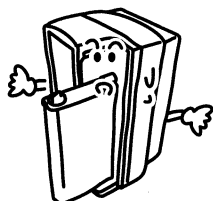
- **Never place anything on the unit.**
- It may cause trouble or dropping. -



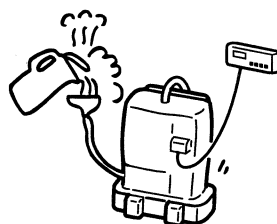
- **Do not use salt water or excessively hard water.**
- The unit may be damaged, or its service life will be shortened. -



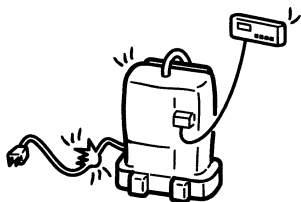
- **If you want to move the unit, first remove the electrolysis enhancer tank.**
- Leaking from the electrolysis enhancer may cause trouble. -



- **Never run hot (104°F/40°C or higher) into the unit.**
- It may damage or cause malfunctions. -



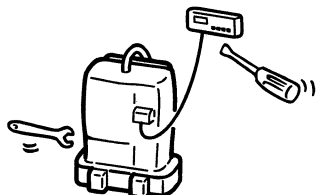
- **Never run the unit with a damaged power supply cord.**
- It can cause a fire, electric shock or malfunction. -



- **When using the unit in a area with cold temperatures please avoid running freezing water into the unit (When you are not using the unit for a long period of time, disassemble the water filter and keep it separately from the unit. At the time, do not touch the Reset button. Before you use the unit again, first pass the water for more than 3 minutes.)**
- Failure to do so can result in damage or malfunction. -



- **Do not tamper with or attempt to repair the unit.**
- It can cause a fire, electric shock or accidents. -



Please observe

# Troubleshooting

Trouble	Cause	Remedy
Buzzer sounds from the cabinet inside.	● Water is remaining in the mounting block.	■ Leakage of water from the main unit is probable. Immediately close the feed water valve and inquire the maker for repair through the free dial phone.
Alarm sounds.	● Defective condition present.	■ Follow the instruction on LCD display.
No water comes out. Output all types of water is getting low.	● The inside the unit is frozen.	■ Raise the room temperature and wait unit melts.
	● The hose under the sink is bent.	■ Smooth out the hose not to be bent.
	● Water filter has clogged.	■ Replace the water filter with a new one.
	● Feed water valve is closed.	■ Open the feed water valve.
	● Water accumulates in the mounting block.	■ Leakage of water from the main unit is probable. Immediately close the feed water valve and inquire the maker for repair through the free dial phone.
	● What flow (pressure) is low.	■ Open the KANGEN Water faucet wider.
	● Cleaning timing	■ Clean using the E-Cleaner.
	● KANGEN Water pH concentration is too high.	■ Lower the pH concentration.
Nasty odor or taste.	● Odor is coming from the remaining water inside.	■ Flow the water for a while and completely drain the water inside the tank.
	● Unit is not plugged in the outlet.	■ Insert the power plug into the outlet.
No power is supplied. (Power lamp doesn't come on)	● Water filter is spent.	■ Replace the filter with a new one.
KANGEN Water has chlorine odor.	● Calcium processed by electrolysis.	■ Change over to acidic water and let the water flow out for a few minutes.
	● Cleaning timing	■ Clean using the E-Cleaner.
Whitish material is floating or has settled in KANGEN Water.	● Output of water is too high.	■ Reduce the water plug opening.
	● No electroysis enhancer.	■ Refill electroysis enhancer.
Acidic Water does not go lower than pH2.7 when the Strong acidic Water switch is selected.	● Calcium buildup in the ionizing cell.	■ Press the BEAUTY button and run water for about 1 minute to clean the ionizing cell.
Dropping pH value when processing KANGEN Water and Beauty Water.	● Cleaning timing	■ Clean using the E-Cleaner.

## **Attention** • Reactions of pH test liquid with ground water containing free carbonic acid

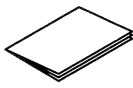
- In the event that ground or well water is used in place of tap water, because of the ionization of free carbonic acid in the water, the pH of KANGEN Water may return to neutral 1~2 seconds after electrolysis (the pH test liquid turns from blue to green). Despite this, KANGEN Water retains many of its characteristics, tastes good, and benefits.
  - **Test method:** Put 3 or 4 drops of the pH test liquid in an empty transparent glass. Pour KANGEN Water za(pH 9.5) in the glass.
  - **Reactions** : The solution turns somewhere between royal purple and blue just after adding the KANGEN Water and from blue to green in 1~2 seconds.

## Cleaning with a E-Cleaner

Please refer to the E-cleaner manual for details.



Cleaning Powder Unit (CPU)  
(※Replace when CPU is broken.)



E-Cleaner Manual



Cleaning Powder

### **Attention**

Please use the cleaning powder once every week or two weeks.

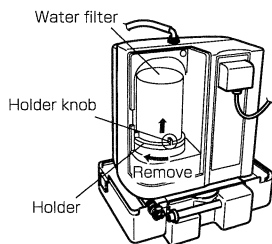
- Be sure to shut off the faucet and turn off the unit before cleaning.
- Always turn the power off and disconnect the plug.
- Please only use one pack of the cleaning powder fabricated by the manufacturer for each individual treatment. Using another cleaning powder could cause internal damage to the unit.

The cleaning powder includes citric acid so avoid using the water during cleaning mode to sanitize all fruits and vegetables.

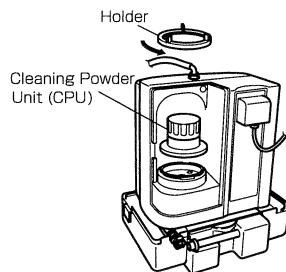
### Cleaning machine

Use E-Cleaner once every week 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 softner is recommended only for extremely hard water sources. Also over time your faucet may build calcium and you may need to send your faucet in for cleaning. (Enagic is not responsible for any cost to remove any equipment for cleaning.) Please follow these recommendations to insure your machine produces quality KANGEN WATER.

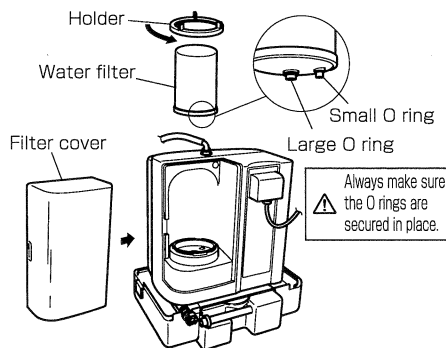
With the faucet off, open ter cover and remove the water filter.



Replace the water filter with the CPU.



Close the faucet again, and replace the original filter that you removed in step 1, allow the water to flow for several minutes.

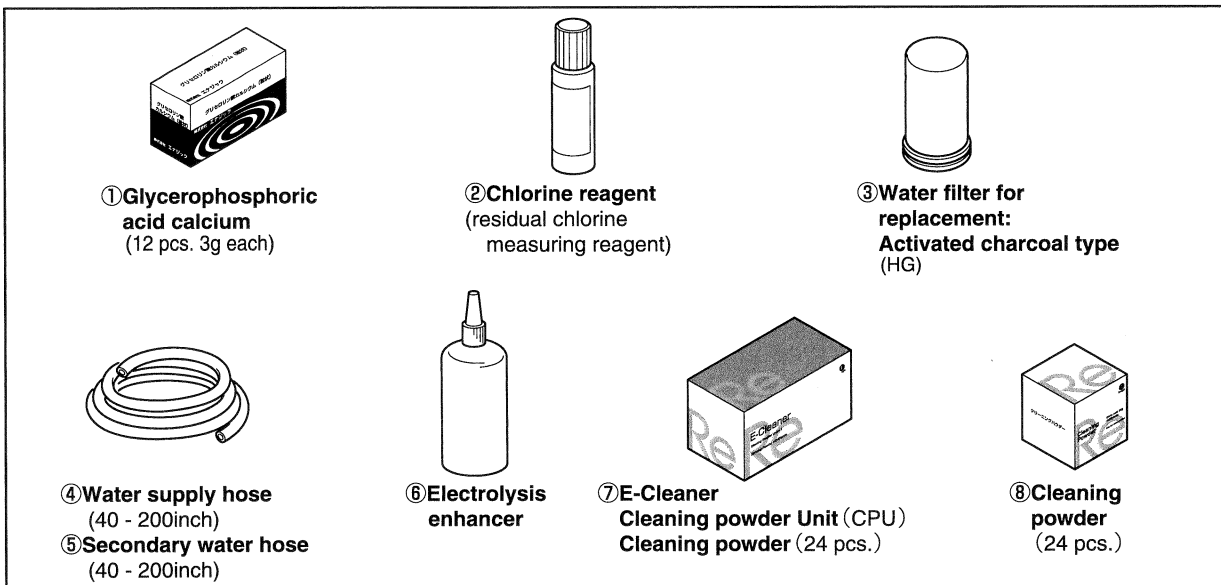


### SD501U Cleaning instructions

- 1) Turn power supply off and remove water filter cover.
- 2) Pull out drain water tank from the mounting block at bottom of unit. (for more info see filter cover or go to page 24 on operation manual)
- 3) Connect the end of tank hose of the drain water tank to the drain water connection port at left side of the mounting block. (Make sure you hear a click sound when making connection)
- 4) Unscrew water filter holder & remove filter add 1 packet of cleaning powder to cpu and install back on unit. (Remember to install filter holder to hold cpu in place)
- 5) Disconnect hose to drain water tank discard water. (Caution: Do not run water with drain tank connected. It will overflow and flood undersink)
- 6) Open faucet and allow water to flow slowly for 5 sec., then turn off faucet. leave it for 3-5 hrs
- 7) Open faucet at full pressure 5-10 minutes to flush units.
- 8) Close faucet and follow steps 2 and 3 again. (Connect drain water tank)
- 9) Unscrew filter holder and remove cpu. install filter back on with filter holder (If installing new filter remember to push reset button)
- 10) Follow step 5 (disconnect drain water tank) congratulations you have cleaned your unit.

# Options

## • Options

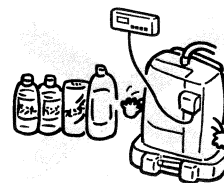


## About maintenance

Please perform the following maintenance work for your long and safe use of the unit.

### Main unit, controller, water plug and hose

- Generally, wipe these parts with a soft cloth (once dipped with water and then twisted hardly to remove excessive water).
  - If these parts are seriously contaminated, wipe to clean with the neutral detergent solution (diluted) and then wipe again with the soft cloth dipped with clear water.
- \* Never use cleanser, thinner, benzene, kerosene or chlorine type bleaching agent to prevent flow or discoloring.



### If the unit is not to be used for a long period or freezing is anticipated.

- Drain water from the main unit according to the procedure explained in page 22 to 23 of the Operation Manual.
  - When using the unit again, first pass the water for more than 3 minutes.
  - If freezing may occur, or when the unit is not to be used for some time, remove the water filter and keep the unit in safe to avoid freezing.
- While doing these works, never touch the reset button.



### Checking water leakage sensor performance

Check the water leakage sensor performance about once a year.

- ① Take off the mounting block cover at the left of the mounting block and take out the water leakage sensor under the cover.
- ② Dip two parts of the sensor electrode in the water. Check to see that no water is coming out even if the buzzer sounded, emergency solenoid valve is closed and the KANGEN Water faucet is open.
- ③ Take out the sensor electrode from the water. Check to see buzzer sound has stopped, the emergency solenoid valve is open and the water comes out from the KANGEN Water faucet.
- ④ After confirming the above, wipe the water on the sensor electrode sufficiently, and mount the sensor and mounting block cover to their original positions.



# Standard specifications

<b>Item name</b>		LeveLuk SD 501U (Under sink type)	
<b>Feed water specs and connection</b>		Water supply valve closed type	
<b>Power supply</b>		AC120V 60Hz	
<b>Rated current</b>		3.2A	
<b>Power consumption</b>		Max. approx. 230W(If production is done at a high KANGEN pH level)	
<b>Main unit</b>	<b>dimensions</b>	13.3(H) x 10.4(W) x 6.7(D)inch / 338(H) x 264(W) x 171(D)mm	
	<b>weight</b>	13.9 lbs / 6.3kg	
<b>Ionizing system</b>		Continuous ionizing system (Built-in flow rate sensor)	
<b>Electrolysis</b>	<b>KANGEN Water</b>	1.2 ~ 2.0gal. / min. 4.5 ~ 7.5L / min.	
	<b>Feed water pressure Approx.</b>	29psi / 200kPa	
	<b>Strong Acidic Water</b>	0.2 ~ 0.3gal. / min. 0.6 ~ 1.2L / min.	
	<b>Feed water pressure Approx.</b>	15psi / 100kPa	
	<b>Electrolysis capacity settings</b>	7 levels	KANGEN Water at 3 levels (Approx. pH8.5 / pH9.0 / pH9.5) Clean Water (Approx. pH7.0) Beauty Water (Approx. pH6.0) Strong Acidic Water (Approx. pH2.5) Strong KANGEN Water (Approx. pH11.0)
	<b>Cleaning system of ionizing cell</b>	Automatic cleaning system	
	<b>Materials of electrode and ionizing cell</b>	Platinum-plated titanium	
<b>Water filter</b>	<b>Filter material</b>	Granulated antibacterial activated charcoal, calcium sulfite	
	<b>Removable substance</b>	Residual chlorine (Sterilizer), Odor, and Red rust	
	<b>Un-removable substance</b>	Metal ions/salt dissolved in original tap water	
	<b>Replacement interval</b>	Varies according to region and water quality	
<b>Applicable water pressure</b>		7psi ~ 65psi / 50kPa ~ 450kPa (Approx. 0.5kgf/cm <sup>2</sup> ~ 4.5kgf/cm <sup>2</sup> )	
<b>Continuous use max. water temperature</b>		95°F / 35°C	
<b>Electrolysis enhancer (for Strong Acidic Water production)</b>		Forced dissolving adding type	
<b>Electrolysis enhancer (sodium chloride) re-fill need indication</b>		Voice guidance, Alarm sound, LCD message	
<b>Protective device</b>		AC120V 60Hz	Current fuse 6A
<b>Detective device</b>		Detection of temperature rise and hot water	
<b>Length of power cord</b>		Approx. 1.8 m	

- 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.)

**⚠ Attention** \*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.

## Others

•If you have any questions about the product, please contact your dealer.

For use with cold water only.

Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

## ⚠ Warning



In no case should the product be modified, overhauled or repaired by purchaser, as fire or electrical shock could result.

Any consequences of such behavior shall not be compensated by the maker.

\* For questions and information, please contact your local dealer.

### Los Angeles :

TEL. +1-310-542-7700 FAX. +1-310-542-1700

### New York :

TEL. +1-718-784-2110 FAX. +1-718-784-2103

### Chicago :

TEL. +1-847-437-8200 FAX. +1-847-437-8201

### Honolulu :

TEL. +1-808-949-5300 FAX. +1-808-949-5336

### Texas :

TEL. +1-972-240-3252 FAX. +1-972-722-7402

### Seattle :

TEL. +1-425-640-2222 FAX. +1-425-672-8946

### Orlando :

TEL. +1-407-601-5963 FAX. +1-407-730-3335

### Burnaby :

TEL. +1-604-214-0065 FAX. +1-604-214-0067

### Toronto :

TEL. +1-905-507-1200 FAX. +1-905-507-1233

### Mexico :

TEL. +52-81-8242-5500 FAX. +52-81-8242-5549

### Brazil :

TEL. +55-15-3034-4132 FAX. +55-15-3034-4100

### Germany :

TEL. +49-211-936570-00 FAX. +49-211-936570-27

### France :

TEL. +33 (0) 1 47 07 55 65 FAX. +33 (0) 1 83 71 17 06

### Italy :

TEL. +39-6-3330-670 FAX. +39-6-3321-9505

### Australia :

TEL. +61-2-9878-1100 FAX. +61-2-9878-1200

### Russia :

TEL. +7-495-988-02-05 FAX. +7-495-988-02-06

### Rumania :

TEL. +40-374028779

### Portugal :

TEL. +351-22-8305464

### Hong Kong :

TEL. +852-2154-0077 FAX. +852-2154-0027

### Taiwan :

TEL. +886-2-2713-2936 FAX. +886-2-2713-2938

### Philippines :

TEL. +63-2-519-5508 FAX. +63-2-519-1923

### Korea :

TEL. +82-2-546-8120 FAX. +82-2-546-8127

### Singapore :

TEL. +65-6720-7501 FAX. +65-6720-7505

### Malaysia :

TEL. +60-3-2282-2332 FAX. +60-3-2282-2335

### Indonesia :

TEL. +62-21-2992-3111 FAX. +62-21-2992-8111

### Thailand :

TEL. +662-116-3050 FAX. +662-116-3044

### India :

TEL. +91-80-4650-9900 FAX. +91-80-4650-9908

### Mongolia :

TEL. +976-7012-7778 FAX. +976-7012-7708

### Okinawa :

TEL. +81-98-878-4132 FAX. +81-98-878-4141

### Tokyo :

TEL. +81-3-5205-6030 FAX. +81-3-5205-6035

### Sapporo :

TEL. +81-11-223-5678 FAX. +81-11-223-5680

### Nago :

TEL. +81-980-51-0616 FAX. +81-980-51-0628

### Naha :

TEL. +81-98-917-1309 FAX. +81-98-917-1164

### Osaka Factory :

TEL. +81-72-893-2290 FAX. +81-72-893-8007

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