

Ilexam

Bath Hydrogen Generator MHY-B02

Thank you very much for buying this product.

Please read the user manual before use and use the product safely.

This manual also serves as the warranty card. Please keep it in a safe location.

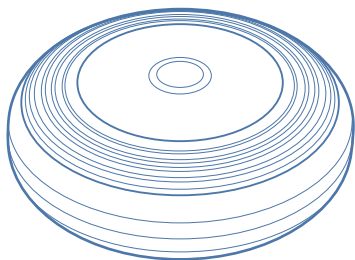


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1 Introduction

About the user manual

- The contents of this user manual might be changed in the future without prior notice.
- For reasons of product improvement, changes relating to appearance or specifications might not be announced in advance.
- Except for personal use, any unauthorized copying of any or all parts of this manual is prohibited. Unauthorized republication is strictly prohibited.

Disclaimer For details of the warranty, please refer to the free repair policy.

- Maxell shall not be responsible for any damage caused by fires, earthquakes, actions of a third party, any accidents, intended or unintended misuse, or other usage under abnormal conditions.
- Maxell shall not be responsible for any incidental damage (loss of profit or discontinuation of business) caused by the use or inoperability of this product.
- Maxell shall not be responsible for failure due to any damage caused by usage other than that described in the user manual.
- No contents (express or implied) beyond those stated in the warranty card are covered.
- Maxell shall not be responsible for use of this product outside of Japan.
- The illustrations in this manual are only images, and may be different from the actual device.

2 Preparations for use

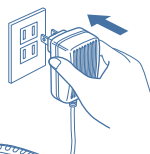
How to charge the battery

- Charge the battery before using the product for the first time.
- Make sure that the power supply is 100 to 240 V AC and to use the power supply adapter provided.
- The recommended ambient temperature for charging is 10 to 35°C. Charging outside this range may result in slow charging and insufficient charging, reducing the number of times the product can be used or failing to charge it.

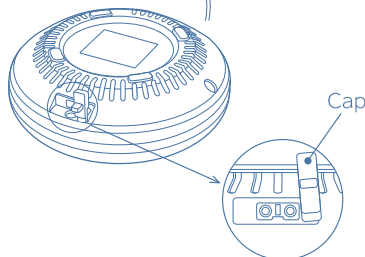
To make full use of the built-in battery

- Avoid charging the product each time you use it. See “Charge timing” on page 12.
- Make sure that the product is charged at an ambient temperature of 10 to 35°C.
- The built-in battery has a limited lifetime. If the number of times the product can be used between charges decreases significantly despite being used in accordance with the user manual, the battery may have reached the end of its lifetime.
- Contact the seller or customer service center on page 16 for battery replacement. (The battery lifetime is dependent on the conditions under which it is used and how it is stored.)
- Be sure to use a household power supply for charging.
- If the product has remained unused for 3 months or more, charge the battery before use.
- Keep the battery in a cool, dry place. Avoid storing it at temperatures above 40°C or below 0°C.

1 Plug the power plug of the power supply adapter into an outlet.



2 Remove the cap from the main unit.



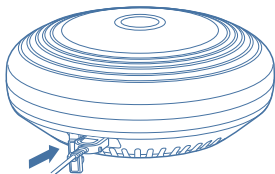
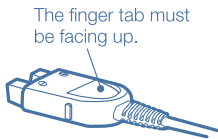
Caution

- Be sure to hold the main unit with both hands. If you hold it in only one hand, you may drop the main unit, causing an injury, malfunction or damage to the product.



③ Connect the appliance plug of the power adapter to the main unit socket.

- Be careful to insert it in the correct orientation.
- Be sure to plug it in all the way.



Warning

- Do not plug the power plug into the outlet or unplug it using wet hands (doing so may result in an electric shock or injury).

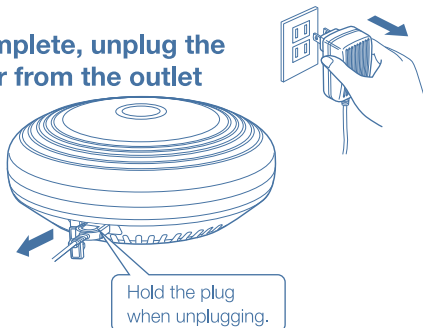
Caution

- Install the connected main unit in a flat place free of water droplets. Be sure not to place the product on the power cord.

- The louver lamp emits red light during charging.
- The louver lamp turns off when charging is complete.
- Charging takes about 6 hours and 30 minutes.
- You can use the product about five times after fully charging the battery (if you use it for 15 minutes each time).
- The number of times the product can be used between charges may decrease depending on water quality, water temperature, or other usage conditions.
- If charging generates noise on your television or any other apparatuses, change the outlet you are using for charging.
- During charging, the power supply adapter and main unit may warm up slightly. This is normal and not a cause for concern.
- If the built-in battery is being discharged, the louver lamp may not emit light immediately.

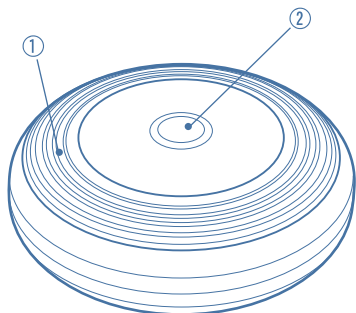
If you continue charging, the louver lamp will emit red light and the built-in battery will begin charging.

④ When charging is complete, unplug the power supply adapter from the outlet and the main unit.



3 Part names and functions

Main unit



① **Louver lamp**
Indicates the condition of the main unit by color and type of illumination.

② **Switch**
Switches the main unit on and off, and changes the lamp color.

③ **Cap**

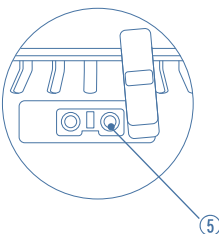
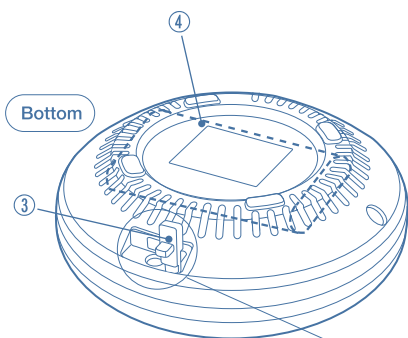
④ **Built-in battery**
(Lithium-ion battery)

⑤ **Main unit socket**

⑥ **Power plug**
Plug it into the outlet all the way.

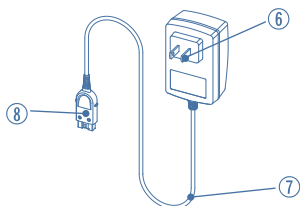
⑦ **Power cord**

⑧ **Appliance plug**



Power supply adapter

Model: KH-340






4 Safety advice

Please read.

This user manual contains vital information to prevent damage to the user, another person, or property and to enable safe use of the product. Read and understand the following contents (signs and symbols) prior to reading the rest of this manual, and observe the cautions and other descriptions.

Descriptions of the signs










Signs	Meaning of the sign
 Danger	Danger refers to misuse that may lead to death or serious injury* ¹ and indicates a high degree of urgency.
 Warning	Warning refers to misuse that has a high possibility of leading to death or serious injury* ¹ .
 Caution	Caution refers to misuse that might lead to minor injury* ² or damage* ³ .

*1: “Serious injury” refers to blindness or an injury, burn, electric shock, bone fracture, poisoning, or injury with after-effects, or an injury resulting in hospitalization or long-term follow-up consultation.

*2: “Minor injury” refers to an injury, burn or electric shock that does not result in hospitalization or long-term follow-up consultation.

*3: “Damage” refers to extensive damage to house or property and domestic animals/pets.

Descriptions of the symbols

Symbols	Meaning of the symbol
 Prohibited	 stands for actions prohibited when handling the product. Details will be illustrated inside or next to the symbol or with a written description next to it (example:  Disassembly prohibited).
 Caution	 stands for caution regarding outbreak of fire, electric shock, or high temperature when handling the product. Details will be illustrated inside the symbol (example:  Electric shock).
 Instruction	 stands for instructions that must be followed. Details will be illustrated inside or next to the symbol or with a written description next to it (example:  Pulling the plug out of the outlet).

Danger



Prohibited

- People wearing a heart pacemaker must not use this product.

Warning



Prohibited

- **If any of the following conditions apply, consult a doctor before using this product.**
 - You are receiving medical treatment
 - You have a cardiac disorder or abnormal blood pressure
 - You have been advised to restrict bathing or prohibited from bathing by a doctor
 - You have been prohibited from hot baths or massages by a doctor
 - You have abnormal skin sensibility
 - You have an infectious disease
 - You have a high fever
 - You have feelings of physical discomfort
- **If you feel unwell while using the product, stop using it immediately to avoid an accident or other problem.**
- **Clean the product regularly to make sure that pins or rubbish do not adhere to the power plug or appliance plug** (failure to do so may cause an electric shock, short circuit or fire).
- **Do not use the product for any purpose other than bathing (e.g. for drinking)** (doing so may cause physical harm).
- **Do not use the product in any way other than that stated in the user manual** (doing so may cause an accident, trouble, or malfunction).
- **Do not use this product for business purposes (i.e. for an unspecified number of people), for example, in a hotel or public bath** (doing so may cause an accident, trouble, or malfunction).
- **Keep the product out of the reach of infants. Do not allow a child to use this product without adult supervision** (doing so may cause an accident or malfunction).
- **Do not use the product for infants** (doing so may cause an accident or injury).
- **Do not use an outlet outside the range of 100 to 240 V AC** (doing so may cause a fire or electric shock).
- **Before use, be sure to check the outlet voltage** (failure to do so may cause a fire or electric shock).
- **If the cord is damaged or loosely plugged, discontinue use of this product** (an electric shock, a short circuit or outbreak of fire may occur).
- **Do not damage, forcibly bend, pull, twist, or bundle the cord, and do not place a heavy object on it, allow it to get caught, modify, or wind it around the power supply adapter** (doing so may result in an outbreak of fire or electric shock due to the damaged cord).
- **Do not intentionally store generated bubbles in a sealed container or the like** (doing so may cause an explosion or fire).
- **Keep fire (e.g. cigarettes) away from generated bubbles and the bathtub during and after use** (failure to do so may cause an explosion or fire).
- **Do not use more than one unit at the same time in the same bathtub** (doing so may cause an explosion or fire).
- **Do not leave the product in the bathtub** (doing so may cause mold to develop).
- **Do not leave the product in a hot place such as in a car** (doing so may cause a malfunction).
- **Do not drop or subject this product to strong impact** (doing so may cause an injury or malfunction).
- **Do not sit or step on the main unit** (doing so may cause an injury or malfunction).
- **Do not boil bathtub water while the main unit is in the bathtub** (doing so may cause a malfunction).

Warning



Contact with water prohibited

- **Never wash the power supply adapter in water. Keep the power supply adapter free of water droplets** (failure to do so may cause burning due to a short circuit or overheating).
- **Do not plug the power plug into the outlet or unplug it using wet hands** (doing so may result in an electric shock or injury).



Use of this product in a wet location is prohibited.

- **Do not use the power supply adapter in a place exposed to water droplets (e.g. bathroom) or a very humid location** (doing so may cause an electric shock or short circuit).



Remove the power plug

- **If an abnormality occurs during charging, unplug the power plug from the outlet** (failure to do so may cause an accident or outbreak of fire).



Disassembly prohibited

- **Do not attempt to remodel this product. Do not disassemble the product. Do not allow anybody other than a qualified repair mechanic to repair the product** (doing so may result in an outbreak of fire, electric shock, or injury). **Contact the dealer for repair.**

Caution



Prohibited

- **Do not use the product in aquariums. Do not allow a pet drink water produced by the product** (doing so may harm the pet).
- **Do not leave the main unit in a place exposed to hot water droplets** (doing so may cause a malfunction).
- **This product is for indoor use only. Do not use the product outdoors** (doing so may cause a malfunction).
- **Do not use the product for plants** (doing so may harm the plants).
- **Do not use the product in a hot spring** (doing so may cause the product to stop operating or a malfunction).
- **Do not wipe the main unit or power supply adapter with alcohol, benzene, thinner or detergent** (doing so may deform or discolor the product).



Strictly followed

- **Be sure to hold the main unit with both hands** (failure to do so may cause damage, a malfunction or injury due to dropping the product, or injury to your fingers).
- **Be sure to hold the plug instead of the cord when removing the appliance plug** (holding the cord may result in an electric shock, short circuit, or outbreak of fire).
- **Do not use a power supply adapter other than the provided one. Do not use the provided power supply adapter to charge any other products** (doing so may cause a fire due to a short circuit or abnormal overheating).
- **Store the product in a low humidity location after use. Do not leave it in a bathroom or the like** (doing so may cause condensation and rusting inside the main unit or a malfunction).

Caution



Strictly followed

- If the main unit socket has water droplets on its surface, wipe them off.
- Do not leave or dry the product in a place exposed to direct sunlight or high temperatures (doing so may cause a malfunction due to deformation or deterioration of the waterproof rubber).
- If you cease operation while using the product, be sure to turn it off in the water before taking it out of the bathtub (to prevent a reduction in the product lifetime).
- Do not use the product together with bath additives (doing so may cause a reduction in generating capacity or the product lifetime, or a malfunction).



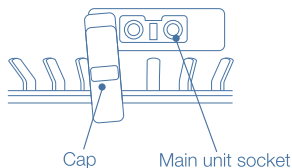
Remove the power plug

- When not using the product or during cleaning, unplug the power plug from the outlet (failure to do so may cause an electric shock, short-circuit fire, or burning due to deterioration of the insulation).
- Only plug the power plug into the power outlet when charging (leaving it plugged in when not charging may cause an injury, burn, electric shock, or short-circuit fire due to deterioration of the insulation).

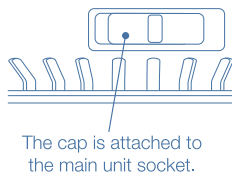
5 Usage

- 1 Check that the cap is attached to socket in the main unit and the product is in working condition.

When charging



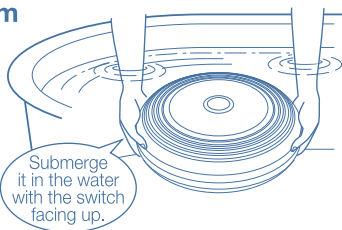
During use



Caution

- Be sure to check that the cap is firmly attached to the main unit socket every time you use the product.

- 2 Put the product in a bathtub full of warm (or desired temperature) water.



Caution

- Avoid placing the product near the hot water outlet so that the main unit is not directly exposed to hot water (50°C or higher). The product is operable within the temperature range of 20 to 45°C.
- Do not use the product together with bath additives.

③ While the main unit is in the water, press and hold the switch until the lamp (gradated aqua) lights up (about half a second).

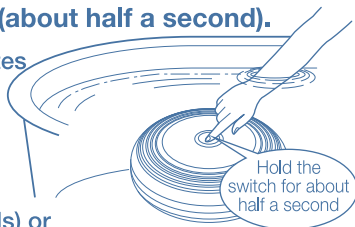
- The product begins operating and generates fine bubbles containing hydrogen.

Operation continues for about 15 minutes and automatically stops.

To stop operation midway, press and hold the switch underwater (for about 2 seconds) or press it repeatedly until the lamp turns off.

- The amount of hydrogen generated may vary due to water quality.
- You can change the lamp color to a desired color.

At the beginning of operation, the lamp lights up as gradated aqua, and the lamp color changes to blue, white and pink, then turns off (power off) each time you press the switch during operation.



Caution

- Be sure to press the switch to start operation while the product is submerged in water.

④ After use, take the product out of the bathtub, incline the main unit to drain water from the hole on its lower side, and wipe it with a soft cloth to remove moisture, dirt, and the like.

Caution

- When draining the main unit, incline it so that the remaining water can be drained. (If you shake the main unit, you may drop it, causing an injury or malfunction.)

- After using the product, wipe off excess moisture and place it in a low humidity location.



Charge timing

- When the selected color blinks during operation, this indicates that the battery will last for about one more operation. If this happens, charge the battery as soon as possible. (If gradation and off are selected, the lamp blinks blue.)
- When the battery flattens, the lamp blinks red for about 10 seconds before the product stops operating. When the battery is flat, pressing the switch causes the lamp to blink red for about 10 seconds. Charge the battery.

Caution

- **In order to make full use of the battery's performance, do not charge it each time you use the product.**
Charge the battery after the lamp of the selected color blinks during operation.

- If the main unit of the product has been stored in a cold environment below 10°C and is used immediately, the battery voltage drop due to the cold environment may cause the light to blink blue or red, depending on the battery capacity.
If this happens, blinking will stop if you leave the product to sit for a while in a warmer environment.
This is due to the characteristics of the battery and is unavoidable.

6 Maintenance

Warning

- **Never wash the power supply adapter in water. Do not pour water on it or submerge it in water** (doing so may cause an electric shock, a short circuit, or fire).
- **When cleaning it, be sure to unplug the power plug from the power outlet** (failure to do so may cause an electric shock or injury).

Caution

- **Do not use hot water** (doing so may cause deformation or a malfunction).
- **If you are concerned about odors or dirt, wash the main unit with baking soda. Do not use any detergent other than baking soda** (doing so may cause a malfunction).

- **If you are concerned about odors or dirt, wash the main unit with baking soda.**

① **Prepare a container that can contain both the main unit and baking soda.**

Because the entire main unit needs to be submerged, the depth of the container must be 15 cm or more.

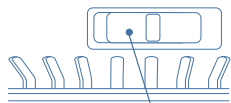
② **Put enough lukewarm water (35 to 40°C) into the container so that the entire main unit can be submerged.**

③ **Add the necessary amount of baking soda (15 g for 1 L of water) and stir the liquid well until the baking soda is completely dissolved.**

- ④ Leave the main unit in the lukewarm water with dissolved baking soda for about 2 hours.**

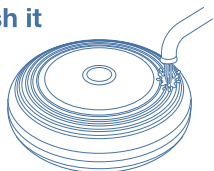
⚠ Caution

- Make sure that the cap is attached to the main unit socket.



The cap is attached to the main unit socket.

- ⑤ After 2 hours, take the main unit out and wash it out thoroughly with running water.**



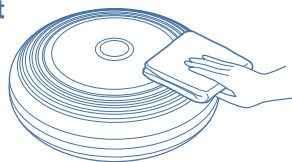
⚠ Caution

- Allow the running water to flow over the lower section in particular to wash it out thoroughly.
- Since the surface of the main unit is slippery when baking soda adheres to its surface, be careful to avoid dropping and damaging the main unit.

- ⑥ Replace the main unit in the lukewarm water, and turn on the switch to start operation (internal rinse).**

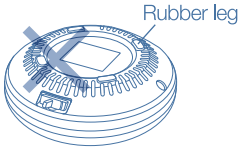
- ⑦ Take the main unit out of the water after it automatically stops after operating for 15 minutes.**

- ⑧ Wipe moisture off the surface thoroughly, and let it dry naturally.**



7 Troubleshooting

If this product does not work normally, refer to the following solutions. If the following solutions cannot solve the problem, please contact the seller or address on page 16.

Problem	Point(s) to inspect	Action(s)
Cannot be powered on. Inoperable.	Did you press and hold the switch for about half a second until the aqua lamp lighted up?	Press and hold the switch for about half a second until the aqua lamp lights up.
	Is the battery flat? When the battery is flat, pressing the switch causes the light to blink red.	Charge the battery.
The product stops operating while it is in use.	Has 15 minutes or more passed since the start of operation?	The product stops automatically after about 15 minutes. Turn on the switch.
	Does the bathtub contain something that changes the water quality (e.g. bath additives), or did you use hot spring water or well water? If the water is of electrolyte-rich quality (e.g. bath additives, hot spring water, well water), the safety function to protect the main unit is activated, causing operation to stop.	Do not use bath additives. Do not use the product in hot spring water or well water. If it stops in a situation other than the above, the water is of electrolyte-rich quality, or the main unit may have failed.
	Is metal such as a hairpin in contact with the inside of the main unit?	Remove the metal.
	Is the main unit hot?	The safety function to protect the main unit works, causing operation to stop. Take the main unit out of the bathtub and cool it at room temperature for about 60 minutes before using it again.
No bubbles (hydrogen) are generated in water.	Is the louver blocked?	Do not block the louver.
	Is the main unit upside down?  Rubber leg	With the main unit switch section facing up, place it on the bottom of the bathtub and press the switch again.
The lamp of the selected color (blue, white or pink) blinks while the product is in use.	This indicates that the battery is capable of only one more operation.	This is not a malfunction. Charge the battery.

Problem	Point(s) to inspect	Action(s)
The red lamp blinks while the product is in use.	This indicates that the battery is running low.	This is not a malfunction. Charge the battery.
Cannot be charged. The lower lamp does not emit light while charging.	Is the power supply adapter or jack unplugged?	Reconnect properly and charge the battery.
	Is dust or dirt attached to the main unit socket?	Clean the socket.
	If the built-in battery is being discharged, the lower lamp may not emit light.	Continue charging. The lamp will emit red light, and the built-in battery will start charging.
Charging finishes earlier than usual.	Has the built-in battery been fully charged? The overcharge protection function is working.	Use it as is.
Charging is recommended early.	Is the room temperature during charging between 10°C and 35°C?	Charge the battery in the recommended charging temperature range (10 to 35°C). Charging outside this range may slow down charging, resulting in insufficient charging, reducing the number of times the main unit can be operated, or failing to charge the main unit.
	The built-in battery has a limited lifetime. If the number of operations between each charge has decreased dramatically, the battery may have reached the end of its lifetime.	It is time to replace the built-in battery. Replacement must be carried out by the manufacturer. Contact the seller or customer service center on page 16.
	Did you immediately use the main unit of the product after storing it in a cold environment below 10°C? The battery voltage drop due to the cold environment may cause the light to blink blue or red, depending on the battery capacity.	Leave it to sit for a while in the indoor environment at 10 to 35°C before use.
	The number of operations between charges may decrease depending on water quality, water temperature, or other usage conditions.	This is not a malfunction.
Only a few bubbles (hydrogen) are emitted into the water.	The amount of bubbles (hydrogen) generated may vary due to water quality.	This is normal.
Is it safe for water to be inside the case of the main unit when it is submerged in water?	The main unit has a double-case structure. The outer case has a structure that allows water to enter, so that the main unit can be submerged.	This is normal.

8 Specifications

Rated voltage	100 to 240 V AC, both 50 and 60 Hz
Power consumption	About 24 W (charged at 100 V AC)
Battery type	Lithium-ion
Charging time	6.5 hours (at 10 to 35°C room temperature)
Water temperature range	20 to 45°C
Waterproofing	Complies with JIS IPX8 (immersion at a water depth of 1.5 m for 24 hours)
Dimensions	Main unit: about 220 (width) x 220 (depth) x 95 (height) mm
Weight	Main unit: about 1700 g Power supply adapter: about 150 g

9 Disposal



This product uses a lithium-ion battery, which is a valuable recyclable resource. When disposing of this product, do not remove the battery yourself. Take the product to the seller to have the battery removed. Your cooperation in this regard is greatly appreciated.

All parts other than the main unit must be disposed of according to local regulations and other laws.

Warning

- **Do not disassemble the product when disposing of it** (doing so may cause a fire, electric shock, or injury).

Please inspect the bath hydrogen generator if it has been used for several years.

Are there any signs of the problems described below?

- The power supply adapter becomes abnormally hot.
- The main unit deforms or generates a burning odor.
- Other abnormalities or failures occur.

Discontinue use.

To prevent a failure or accident, turn the switch "OFF", disconnect the power plug from the outlet, and then be sure to contact the seller.

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