

Ilexam

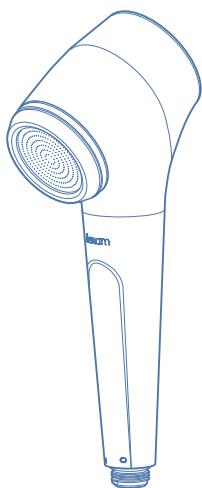
Electrolytic Hydrogen Shower

## MHY-BS01

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.



### Table of contents

Pages

<b>1</b>	<b>Introduction</b>	<b>3</b>
<b>2</b>	<b>Preparations for use</b>	<b>3</b>
<b>3</b>	<b>Part names and functions</b>	<b>7</b>
<b>4</b>	<b>Safety advice</b>	<b>8</b>
<b>5</b>	<b>Usage</b>	<b>11</b>
<b>6</b>	<b>Charge timing</b>	<b>13</b>
<b>7</b>	<b>Maintenance</b>	<b>13</b>
<b>8</b>	<b>Troubleshooting</b>	<b>15</b>
<b>9</b>	<b>Specifications</b>	<b>16</b>
<b>10</b>	<b>Disposal</b>	<b>17</b>

## 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.

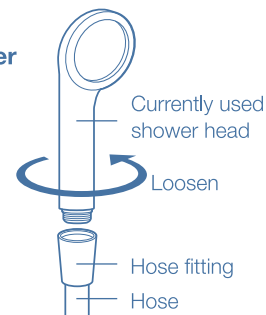
## 2 Preparations for use

### How to install the shower head

- Before installation, check the name of the manufacturer of your current shower head and whether the hose is in normal working order.
- Be sure to turn off the main shower faucet before installation.

- 1 While holding the hose fitting, turn the shower head counterclockwise until it is completely unscrewed.

\* Do not remove the washer inside the hose fitting.



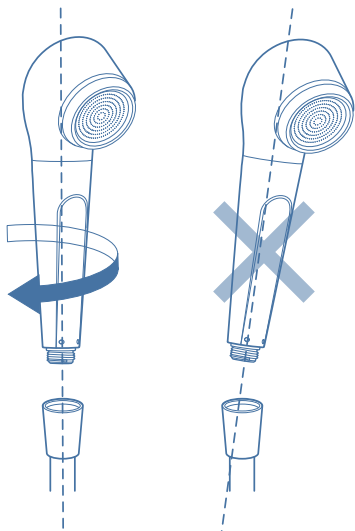
## 2 Install the new shower head

How you install your new shower head depends on the manufacturer of the original shower head.

Find out who the manufacturer of the original shower head is before installing this product.

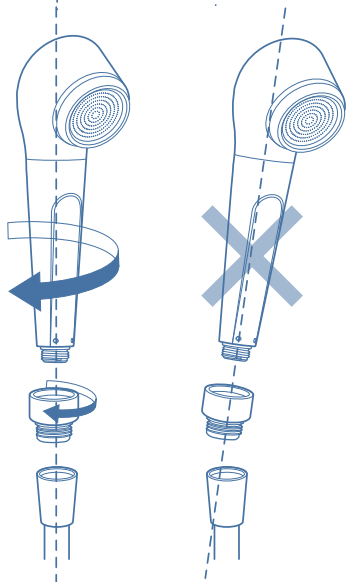
If you are using a shower head made by TOTO, LIXIL (INAX), or KAKUDAI GROHE, it can be installed without an adapter. While holding the hose fitting, attach the shower head straight onto the hose fitting by turning it clockwise.

\* When the shower head is not straight relative to the hose fitting, turning it may damage the threads.



If you are using a shower head made by KVK or MYM, it requires an adapter. First, attach the appropriate adapter to the hose fitting, then attach this product straight onto the adapter by turning it clockwise.

\* When the shower head is not straight relative to the hose fitting, turning it may damage the threads.



## Caution

- Do not use this product for a combination faucet without a backflow prevention mechanism (i.e. check valve) or for a balanced-flue system bath boiler type hot water supply system (doing so may cause a malfunction).
- If this product's threading does not match that of the shower head, do not turn it forcibly (doing so may cause a malfunction).

## How to charge the battery

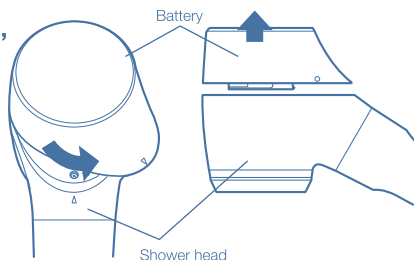
- Charge the battery before using the product for the first time.
- Make sure that the power supply is 100 to 240 V AC and to use the power supply adapter provided.
- The recommended ambient temperature for charging is 10 to 35°C. Charging outside this range may result in slow charging and insufficient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

## Observe the following in order to make full use of the battery.

- Avoid charging the product each time you use it. See “Charge timing” on page 13.
- Make sure that the product is charged at an ambient temperature of 10 to 35°C.
- The 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** Turn the battery counterclockwise, and pull it upward to remove it.

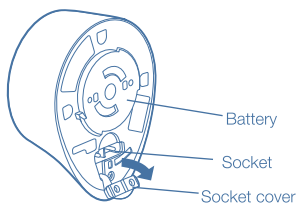
- When removing the battery, be sure to hold the shower head while doing so.



## Caution

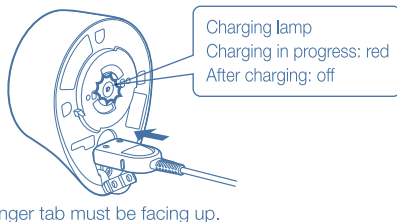
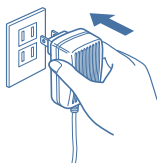
- The battery must not be submerged in water (doing so may cause a malfunction).

**2 Remove the battery socket cover.**



**3 Connect the power supply adapter to the battery and a power outlet.**

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



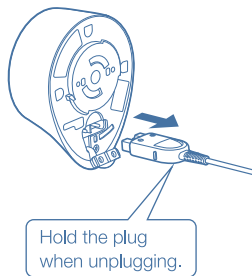
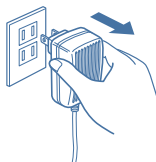
The finger tab must be facing up.



**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).

**4 When charging is complete (3.5 hours), unplug the power supply adapter from the outlet and battery.**



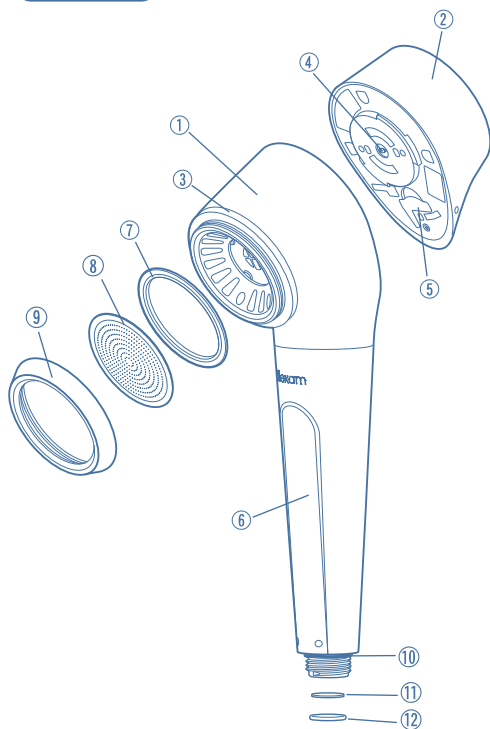
- During charging, the battery and adapter may warm up slightly. This is normal and not a cause for concern.

**You can use the product for about 40 minutes with the battery fully charged.**

\* The usable time between charges may decrease depending on the ambient temperature and water quality.

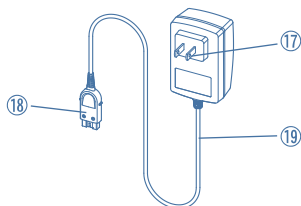
### 3 Part names and functions

#### Main unit



#### Power supply adapter

Model: KH-340



#### ① Shower head

#### ② Battery

#### ③ Indicator lamp

When the product is in use, the lamp emits light in a ring pattern.  
When the usable time remaining is 10 minutes or longer, it emits a constant blue light.  
When the usable time remaining is less than 10 minutes, it blinks blue.  
When it is inoperable, it emits a constant orange light.

#### ④ Charging lamp

Charging in progress: red  
After charging: off

#### ⑤ Socket cover

#### ⑥ Grip

#### ⑦ Washer

#### ⑧ Shower plate

#### ⑨ Shower cap

#### ⑩ O-ring

#### ⑪ Filter

#### ⑫ Filter O-ring

#### ⑬ Adapter (K) (for KVK)

#### ⑭ Adapter (M) (for MYM)

#### ⑮ Adapter (G)

(for Tokyo Gas products)

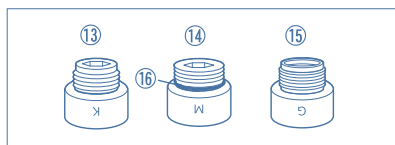
#### ⑯ O-ring for adapter (M)

#### ⑰ Power plug

#### ⑱ Appliance plug

#### ⑲ Cord

#### Adapter






## 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
 <b>Danger</b>	Danger refers to misuse that may lead to death or serious injury* <sup>1</sup> and indicates a high degree of urgency.
 <b>Warning</b>	Warning refers to misuse that has a high possibility of leading to death or serious injury* <sup>1</sup> .
 <b>Caution</b>	Caution refers to misuse that might lead to minor injury* <sup>2</sup> or damage* <sup>3</sup> .

\*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
 <b>Prohibited</b>	 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).
 <b>Caution</b>	 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).
 <b>Instruction</b>	 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**



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



## Warning



Strictly followed

- **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 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).



Prohibited

- **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** (failing to do so may cause an accident or malfunction).
- **Do not use the product for infants. Do not allow a child to use this product without adult supervision** (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 or battery** (doing so may result in an outbreak of fire or electric shock due to the damaged cord).
- **Keep the product away from fire (e.g. cigarettes) while it is in use** (failure to do so may cause an explosion or fire).
- **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).



Contact with water prohibited

- **Never wash the power supply adapter or battery in water.**  
**Do not submerge the power supply adapter, battery, or shower head in water** (doing so may cause burning due to a short circuit or overheating).
- **Do not charge the product while the power supply adapter or battery socket is wet** (doing so may cause burning due to a short circuit or overheating).

## Warning



Use of this product in a wet location is prohibited.

- **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).
- **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

- **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).
- **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.**



Strictly followed

- **Attach the shower cap, shower plate, and washer to the shower head properly and securely** (failure to do so may cause an injury or malfunction).
- **When you begin using the product, be sure to check the water temperature** (failure to do so may result in burning or physical harm).

## 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).
- **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).
- **Do not use the product at a water temperature of 50°C or more** (doing so may cause damage, deformation, burning, or water leakage).
- **Do not use this product for a combination faucet without a backflow prevention mechanism (i.e. check valve) or for a balanced-flue system bath boiler type hot water supply system** (doing so may cause a malfunction of the hot water supply system).
- **Do not use this product to fill the bathtub with hot water** (doing so may cause a malfunction).
- **Do not let the product freeze** (if it freezes, it may cause a malfunction or water leakage).
- **Do not submerge the battery in water** (doing so may cause a malfunction).

## ⚠ Caution



Strictly followed

- Be sure to hold the grip when removing the main unit from the shower hanger or hook on the bathroom wall.  
Do not hold the hose section when lifting and removing the main unit (doing so may cause you to drop the product, leading to damage, injury, or a malfunction).
- 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).
- If the 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 feel itching or irritation on your skin during or after use, discontinue use and consult a doctor.
- When using the product in a location with high water pressure, tighten the main faucet (failure to do so may cause damage or a malfunction).
- Be sure to turn off the main faucet after using the product (failure to do so may cause flooding).
- Replace the washer regularly, at intervals of about 1 year (failure to do so may cause water leakage).
- Be sure to remove the battery after using the product (failure to do so may cause a malfunction or decrease in the battery lifetime).
- Do not block the shower plate (doing so may cause a malfunction).

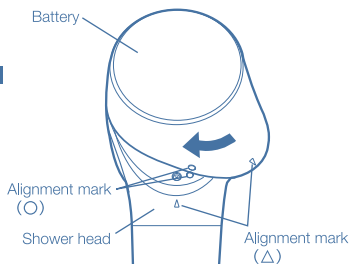
## 5 Usage

### ⚠ Caution

- Do not submerge the battery in water (doing so may cause a malfunction).

- ① To install the battery, insert the battery so that the circular alignment mark ○ on the battery is aligned with the circular alignment mark on the shower head, then turn it clockwise until the triangular alignment mark ▽ on the battery is aligned with the triangular alignment mark on the shower head.

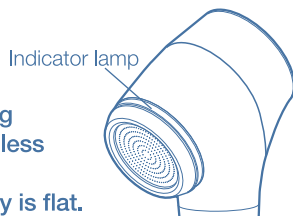
\* Wipe off any excess water from the shower head and battery before assembly.



Upon completion of battery installation, the indicator lamp emits a blue light for about 10 seconds.

A blinking blue light indicates that the remaining battery power corresponds to a usable time of less than 10 minutes.

A blinking orange light indicates that the battery is flat. Charge the battery according to the instructions in “How to charge the battery” on page 5.



### Caution

- Be sure to hold the grip when removing the main unit from the shower hanger or hook on the bathroom wall.  
Do not hold the hose section when lifting and removing the main unit (doing so may cause you to drop the product, leading to damage, injury, or a malfunction).

### 2 Turn on the main faucet of the shower.

When water is supplied through the shower with the battery installed, the internal sensor automatically starts electrolysis.

During electrolysis, the indicator lamp emits a blue light or blinks blue.

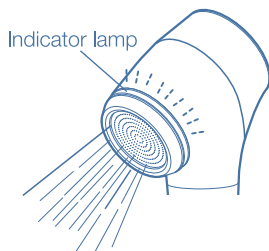
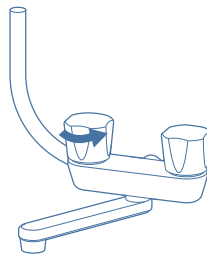
- \* If the flow of water is insufficient, the indicator lamp does not emit light because electrolysis does not occur.

Turn on the main faucet of the shower until the indicator lamp emits light.

- \* If the flow of water through the shower is excessive, the amount of dissolved hydrogen may decrease.

- \* If the battery has sufficient power, electrolysis always occurs when water is supplied through the shower.

This product is not provided with a mode that does not produce electrolysis.



### 3 Turn off the main faucet of the shower after using the product.

When the water supply stops, the indicator lamp may continue to emit light or blink for 10 seconds and then go out, depending on the remaining battery power.

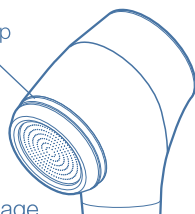
## 6 Charge timing

When the indicator lamp blinks blue during or after use, this indicates that the remaining usable time is less than 10 minutes.

Charge the battery as soon as possible.

When the indicator lamp emits orange light, this indicates that the battery is flat. Charge the battery immediately.

Indicator lamp



\* If the battery has been stored in a cold environment, the lamp may blink blue or emit orange light due to a battery voltage drop, even if the battery has sufficient power. The product will operate normally when the battery is restored to normal temperature. This is due to the characteristics of the battery itself and not a malfunction in the main unit.

## 7 Maintenance

### ⚠ Caution

- Do not use a metal scrubbing brush, harsh cloth, or sponge to clean the product (doing so may cause scratching, water leakage, or a malfunction).
- Do not use any type of detergent (doing so may cause deformation or discoloration).
- Do not use dirty hands or a dirty cloth, etc. to wash the product (doing so may cause a variety of bacteria to propagate).
- Be sure to turn off the main faucet of the shower during cleaning (failure to do so may cause an injury or malfunction).

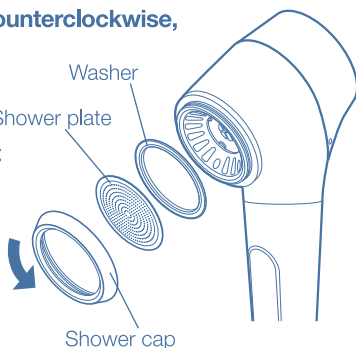
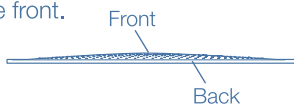
### ⚠ Warning

- Attach the shower cap to the shower head properly and securely (failure to do so may cause injury or malfunction).

① Remove the shower cap by turning it counterclockwise, then remove the shower plate.

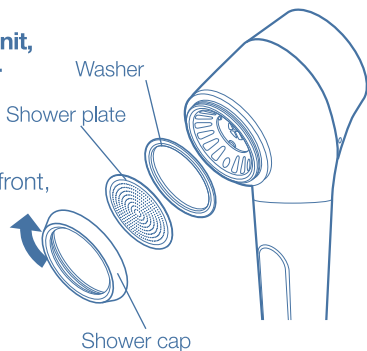
② Wash the front and back of the metal section of the shower plate using a soft brush such as a toothbrush.

\* The shower plate has a convex side and a concave side. The convex side is the front.

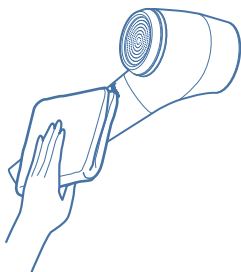


- 3 After attaching the washer to the main unit, attach the shower plate over the washer and turn the shower cap clockwise until it is securely installed.**

\* If the shower plate is attached back-to-front, it may result in an irregular water flow. Check the front and back sides of the shower plate and attach it properly.



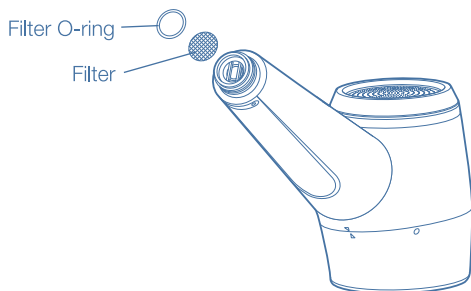
- 4 Wipe the main unit using a soft cloth.**



**If there is insufficient water flow after you have cleaned the main unit, the filter in the bottom of the grip may be contaminated.**

**If this is the case, remove the main unit from the shower hose, remove the filter O-ring and filter at the bottom of the grip, and remove any dirt attached to the filter, using a soft brush.**

**After washing, reinstall the filter and the filter O-ring. Securely reinstall the main unit, following the procedure on page 4.**



## 8 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)
Inoperable.	Is the battery installed?	Install the battery according to the procedure on page 11.
	Is the main faucet of the shower turned on?	The product operates by detecting the supply of water. It does not operate when no water is supplied. Turn on the main faucet of the shower to circulate water through the product until it operates.
	Is the battery flat?	Charge the battery.
The product stops operating while in use.	Has water flow decreased?	Increase the supply of water. Using water in other facilities such as a toilet or washing machine may temporarily reduce the amount of water in the shower, stopping the product from operating. Once the supply of water flow increases, it will resume operating.
	Is the battery hot?	The safety function to protect the main unit may be activated due to an increase in the temperature inside the product, stopping operation. In this case, cool the product at room temperature for about 60 minutes before using it again.
Operation does not stop automatically.	This is in accordance with product specifications: the product continues operating while water is being supplied, until the battery is exhausted.	Turn off the main faucet of the shower.
The power supply adapter is abnormally hot.	Is the plug loosely inserted in the outlet?	Use an outlet that allows the power plug to be firmly inserted.
The amount of water from the shower is insufficient. The shower spray spreads irregularly.	Is the shower plate or filter clogged?	Clean them according to the cleaning procedure on page 13.
Water flows from the shower head even when the main faucet is turned off.	Water in the shower head may be discharged immediately after the main faucet is turned off.	This is not a malfunction.
Water leaks from the base of the shower head.	Have you forgotten to install the washer in the shower head, or are you using the wrong adapter?	Install the adapter and washer securely, according to the shower head installation procedure on page 3.
The lamp does not turn off even when the main faucet is turned off.	Has this occurred immediately after you turned off the main faucet?	Immediately after the main faucet is turned off, the indicator lamp emits light or blinks for 10 seconds, depending on the remaining battery power.

Problem	Point(s) to inspect	Action(s)
The lamp blinks while in use.		
Blue blinking	The remaining battery power is low. (less than 10 minutes)	This is not a malfunction.
Constant orange light	This indicates that the battery is flat.	This is not a malfunction. Charge the battery.
Red blinking	Short-circuited electrode.	The product may contain a foreign object. If this does not improve even after water is supplied through the product for about a minute, stop using it immediately and contact the customer service center.
Cannot be charged. The lamp does not emit light while charging. Charging finishes earlier than usual.	Is the power supply adapter or appliance plug properly connected?	Establish the proper connection and charge the battery.
	Have you already charged it? (Is the battery already fully charged?)	This is due to the overcharge prevention function, which protects the battery. This is not a malfunction.

## 9 Specifications

Power supply method	Charging
Rated voltage	100 to 240 V AC, both 50 and 60 Hz
Power consumption	Power supply adapter: about 10 W (charged at 100 V AC)
Battery type	Lithium-ion
Charging time	3.5 hours (at 10 to 35°C room temperature)
Water temperature range	20 to 45°C
Waterproofing	Main unit: complies with JIS IPX7 (immersion at a water depth of 1 m for 30 minutes)
Dimensions	Main unit: about 72 (width) x 113 (depth) x 264 (height) mm
Weight	Main unit: about 460 g Power supply adapter: about 150 g
Accessory	Adapter (KVK, MYM, Tokyo Gas)



## 10 Disposal



This product uses a lithium-ion battery, which is a valuable recyclable resource. When disposing of this product, remove the battery from the shower head and take it to the seller. 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.

**Please inspect the electrolytic hydrogen shower 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, disconnect the power plug from the outlet, and then be sure to contact the seller.

