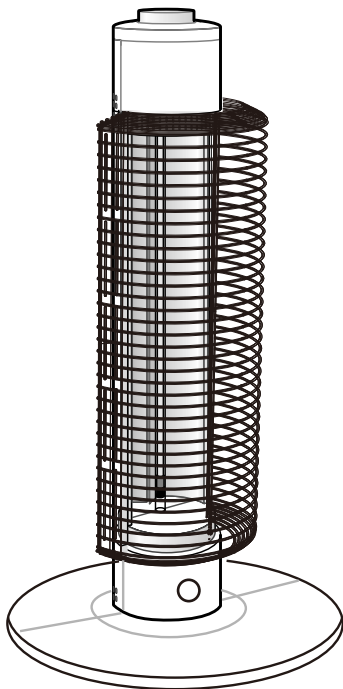


For indoor  
use

# Far Infrared Electric Heater

## SH-G420 / SM-G420

### Operator's Manual (Warranty certificate attached separately)



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In order to use it properly, please read this operator's manual carefully before using. A warranty certificate is attached separately. Please keep the operator's manual along with the warranty certificate in a place where they are accessible to the user of the heater at any time, even after reading.

# SENGOKU L.A., LTD.

1-877-438-4328

# Safety precautions

## INTENDED USE:

This product is intended for indoor residential and office use only, not for industrial or other commercial application. Use only with electrical wiring that is in good working order and that meets applicable codes and ordinances. This heater must be plugged in to a 120V AC, 15 Amp. (or larger) circuit. Do not plug anything additional into the same circuit. If you have any questions whether your wiring is adequate, consult a qualified electrician. Risk of fire, overheating, malfunction, property damage, injury or even death may result if not adhered to.

Use your heater only with a working smoke detector located in the vicinity of your heater.

While using your heater, you should follow the IMPORTANT INSTRUCTIONS listed below and further in this manual. As part of those instructions, we have used the word "WARNING" to indicate the level of hazard: WARNING indicates a hazard which, if not avoided, could result in injury or death.

## IMPORTANT INSTRUCTIONS

When using electrical appliances, basic precautions should always be followed to reduce the risk of fire, electric shock and injury to persons, including the following:

Read all the instructions before using this heater.

This heater is hot when in use. To avoid burns, do not let bare skin touch hot surfaces. Use provided handle when moving this heater. Keep combustible materials, such as furniture, pillows, bedding papers, clothes and curtains at least 3 feet (0.9 meters) from the front of the heater and keep them away from the sides and rear.

Do not leave operating heater unattended. Use of extreme caution is necessary when any heater is used by or near children, invalids, disabled persons or pets.

Do not operate the heater with a damaged power cord or plug or after the heater malfunctions, has been dropped or damaged in any manner. Return heater to authorized service facility or manufacturer for examination, electrical or mechanical adjustment or repair. Do not use heater outdoors.

Use your heater only in dry environments. This heater is not intended for use in a bathroom, laundry area, or similar locations, or near sinks, washing machines, swimming pools or other sources of water. Never locate heater where it may fall into a bathtub or other water container. Do not use in damp environments such as flooded basements.

Do not place the heater on a small, unlevel, uneven or any surface which might allow heater to tip or fall.

For proper operation, heater should be placed on a smooth, non-combustible surface. Do you place on rugs, carpet, vinyl flooring or other plastic surfaces. Not for use outdoors or in wet areas.

This heater is not designed as a primary heat source.

Always plug heaters directly into a wall outlet/receptacle. Never use with an extension cord or relocatable power tap (outlet/power strip). Always unplug heater when not in use.

Do not run power cord under carpeting. Do not cover cord with throw rugs, runners or similar coverings. Do not route cord under furniture or appliances. Arrange cord away from traffic area and where it will not be tripped over.

To disconnect heater, turn controls off then remove plug from outlet. Do not insert or allow foreign objects to enter any ventilation or exhaust opening as this may cause an electric shock or fire or damage the heater.

To prevent a possible fire, do not block air intakes or exhaust in any manner. Do not use on soft surfaces like a bed, where openings may become blocked.

A heater has hot and arcing or sparking parts inside. Do not use it in areas where gasoline, paint or flammable liquids are used or stored.

Use this heater only as described in this manual. Any other use not recommended by the manufacturer may cause fire, electric shock or injury to persons or property.

Always plug heaters directly into a wall outlet/receptacle. Never use with an extension cord or relocatable power tap (outlet/power strip).

### WARNING: SHOCK HAZARD

Use your heater only in dry environments. This heater is not intended for use in a bathroom, laundry area, or similar locations, or near sinks, washing machines, swimming pools or other sources of water. Never locate heater where it may fall into a bathtub or other water container. Do not use heater outdoors. Do not use in damp environments such as flooded basements.

### WARNING: HOT SURFACES

Do not touch body of heater when in use. This heater is hot when in use, to avoid burns, do not let bare skin touch hot surfaces. If provided, use handles when moving this heater.

### WARNING: FIRE HAZARD

Heater has hot and arcing or sparking parts inside. Do not use near combustible materials or flammable gases or sources of heat. DO NOT USE in areas where gasoline, paint or flammable materials are used or stored. Keep combustible materials such as furniture, pillows, bedding, papers, clothes and curtains at least 3 feet (0.9 m) from the front of the heater and keep them away from the sides and rear. To prevent a possible fire, do not block air intakes or exhaust in any manner. Do not use on soft surfaces, like a bed, where openings may become blocked. Do not place the heater near a bed because objects such as pillows or blankets can fall off the bed and be ignited by the heater. Do not insert or allow foreign objects to enter any ventilation or exhaust opening as this may cause an electric shock, fire or damage the heater.

### WARNING: ELECTRICAL SHOCK HAZARD

Do not use with damaged cord or plug. Use with adequate electrical system that is up to code.

The supply cord has a polarized plug. As a safety feature this plug will fit in a polarized outlet only one way. To prevent electric shock, match wide blade of plug to wide slot, fully insert plug. If the plug does not fit contact a qualified electrician.

Do not operate any heater with a damaged cord or plug or after heater malfunctions, has been dropped or damaged in any manner. Do not operate heater with a broken heating element or ceramic cone or any visual imperfections. For repairs covered under warranty, see warranty statement.

### PET OWNERS NOTE: (3mm high)

The health of birds and some small pets are extremely sensitive to the fumes given off during the initial use of many appliances. Although these fumes are not harmful to humans, it is recommended that this heater not be used around birds and small pets during its initial use the manufacturing corrosion coatings burn off.



### CAUTION: Risk of electric shock.No user-serviceable parts inside.

NEVER DISASSEMBLE THE BODY OF THE HEATER  
NEVER REMOVE PROTECTING GUARD  
NEVER DISASSEMBLE CONTROL PANEL OF THE UNIT











## SAVE THESE INSTRUCTIONS

# Safety precautions

- Please read this “Safety precautions” carefully before using, and use it correctly.
- The precautions shown here are for the safe and correct use of the product, in order to prevent harm or damage to people who use it as well as the other people beforehand. Also, in order to clarify the magnitude of harm and damage and the extent of urgency, the precautions are categorized as “warning” and “caution”, which are matters likely to occur when handling incorrectly. Since both are important contents concerning safety, please be sure to comply with them.





 <b>Warning</b>	Matters that could result in death or serious injury when handling incorrectly.
 <b>Caution</b>	Matters that could cause injury or possibly physical damage to a user when handling incorrectly.

## Pictogram examples











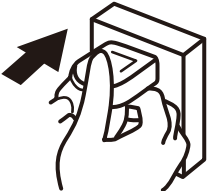





 indicates “enforcement” which means you must always practice.	 General prohibition	 Prohibition of disassembling	 Prohibition of making contact
 indicates “enforcement” which means you must always practice.	 Prohibition of touching with wet hands	 Prohibition of wetness by the water	 Prohibition of use on the water
	 Be sure to do always	 Disconnect the power plug	

- Please keep this manual in a place where it is accessible to the user at any time after reading.


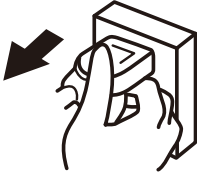

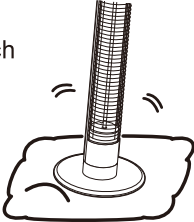



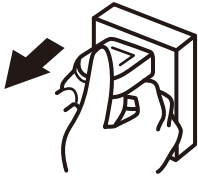



## WARNING

	<ul style="list-style-type: none"> <li>● <b>In case of failure / abnormality, stop using immediately.</b> Using it as it is may cause smoke generation, ignition, electric shock or injury.</li> <li>◆ Even when you turn on the switch, there are times the power does not turn on.</li> <li>◆ When you jiggle the cord, there are times the power turns on, but there are times not.</li> <li>◆ There are irregular sounds and vibrations when the power is on. The plug / cord / main unit is abnormally hot.</li> <li>◆ There is a burning smell.</li> </ul> <p>* Please disconnect the power plug immediately and request your vendor for inspection and repair.</p>		<ul style="list-style-type: none"> <li>● <b>It is not to be disassembled or repaired except by the repair technicians who do not perform modification.</b> It may cause fire, electric shock, or injury.</li> </ul>
			<ul style="list-style-type: none"> <li>● <b>Do not place a spray can or the like near the main unit.</b> Doing so may cause explosion or fire.</li> </ul>
			<ul style="list-style-type: none"> <li>● <b>Do not insert foreign objects, such as metal objects including pins and wires, into the air intake and exhaust ports and gaps.</b> Electric shock or abnormal operation may result in injury.</li> </ul>

# Safety precautions

	<ul style="list-style-type: none"> <li>● <b>Do not use near the flammable items such as curtains and mattresses / blankets.</b></li> </ul> <p>Doing so may cause fire.</p>		<ul style="list-style-type: none"> <li>● <b>Do not use while sleeping.</b></li> </ul> <p>Doing so may cause a fire if the bedding and such has a contact with the heater.</p>
	<ul style="list-style-type: none"> <li>● <b>Keep the power plug clean. Wipe the dust off if it adheres to the prong or the mounting surface of the prong.</b></li> </ul> <p>Failure to do so may cause a short circuit or fire.</p>		<ul style="list-style-type: none"> <li>● <b>There is a danger of burns of skin.</b></li> </ul> <p>Please pay special attention when it is used for the following people. Infants or those who cannot operate it by themselves. People with a weak skin sensation.</p>
	<ul style="list-style-type: none"> <li>● <b>Use outlets rated at 15A or more alone.</b></li> </ul> <p>When used in conjunction with other devices, the branch outlet section may become heated abnormally and ignite. Also, please do not use the extension cord. It may cause abnormal heat generation, fire, or electric shock.</p>		<ul style="list-style-type: none"> <li>● <b>When you leave its side, be sure to turn the switch knob to "OFF".</b></li> </ul> <p>Failure to do so may cause a fire.</p>
	<ul style="list-style-type: none"> <li>● <b>The power cord cannot be slit, manipulated, bent forcefully, pulled, twisted, used in bundle, put under a heavy object, inserted, placed under the main unit of the electric heater, etc.</b></li> </ul> <p>The power cord may become damaged by doing so, causing fire or electric shock.</p>		<ul style="list-style-type: none"> <li>● <b>Do not generate the heat on the same unit part for a long time.</b></li> </ul> <p>If you generate the heat on the same place of the skin for a long time even at a relatively low temperature, there is a danger of low temperature burns.</p> 
	<ul style="list-style-type: none"> <li>● <b>Insert the power plug firmly into the outlet.</b></li> </ul> <p>Failure to do so may cause a danger of electric shock, short circuit, smoke emission, or fire.</p> 		<ul style="list-style-type: none"> <li>● <b>Do not use other than AC 120V.</b></li> </ul> <p>Doing so may cause fire or electric shock.</p>
			<ul style="list-style-type: none"> <li>● <b>Do not plug in or disconnect the power plug with wet hands.</b></li> </ul> <p>You may get electric shock or injured by doing so.</p>
			<ul style="list-style-type: none"> <li>● <b>Do not use if the power cord or power plug is damaged, or the outlet is loose.</b></li> </ul> <p>Doing so may cause electric shock, short circuit or fire.</p>

## CAUTION

	<ul style="list-style-type: none"> <li>● <b>When disconnecting the power plug, be sure to pull out by holding the power plug, not the power cord.</b></li> </ul> <p>Electric shock or short-circuit may occur if failure to do so.</p> 		<ul style="list-style-type: none"> <li>● <b>Do not use on shaggy rugs or cushions.</b></li> </ul> <p>Contact of the anti-tip over double safety switch becomes unstable and it may cause a fire.</p> 
	<ul style="list-style-type: none"> <li>● <b>Do not touch the part with high temperature during use or after use for a while.</b></li> </ul> <p>Doing so may cause burns.</p>		<ul style="list-style-type: none"> <li>● <b>Do not use for other purposes such as drying.</b></li> </ul> <p>It may overheat and ignite by doing so. Please be aware of falling of flammable objects.</p>
	<ul style="list-style-type: none"> <li>● <b>Disconnect the power plug at all times when it is not in use.</b></li> </ul> <p>Failure to do so may result in injury, burns, insulation deterioration, electric shock or electric leakage.</p> 		<ul style="list-style-type: none"> <li>● <b>Be sure to disconnect the power plug and wait until the main unit is no longer hot before cleaning.</b></li> </ul> <p>Failure to do so may cause electric shock, short-circuit or fire.</p>
	<ul style="list-style-type: none"> <li>● <b>Do not spill water or tea, etc. on the main unit or operation unit.</b></li> </ul> <p>In case of spilling, there is a danger of electric leakage, electric shock, and overheating; therefore stop using it immediately and have it inspected by the vendor.</p>		<ul style="list-style-type: none"> <li>● <b>Do not use in the shower/bathroom or outdoors.</b></li> </ul> <p>Failure to do so may result in electric shock, short-circuit, or ignition of fire.</p>

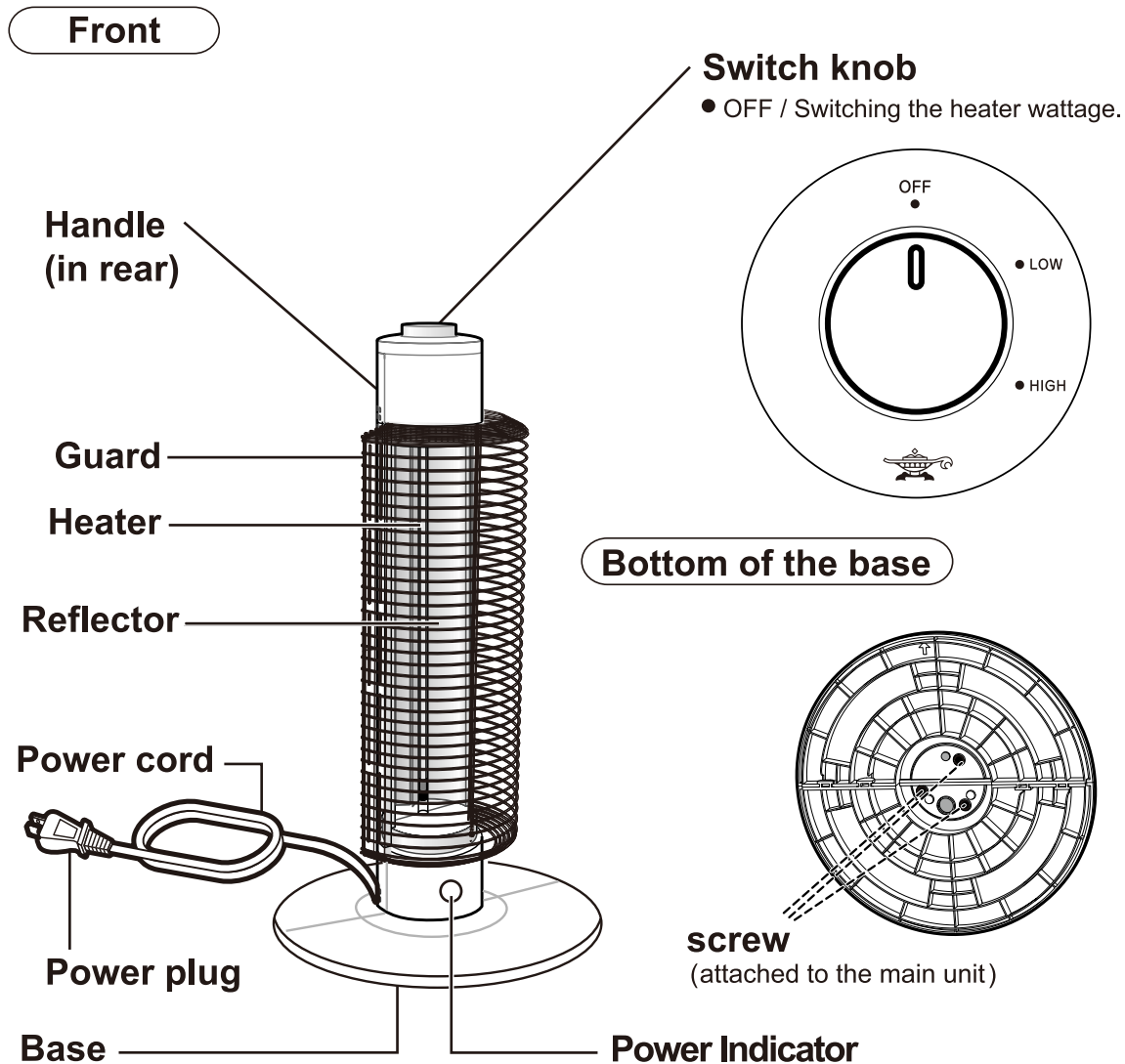
### Pay attention to wetness by water.

- If water is spilled directly on the heater, it may be damaged.

### Be sure to put it on a firm and level surface.

- Putting it on a soft mat and the like is dangerous because it is unstable.

# Name of each part



• In case of the main unit being tipped over, the power supply stops.

\* Although the power cord becomes slightly warm while using, it is not a malfunction. (Do not bundle the power cord while in use)

## Specification

Rating	AC120V 420W	60Hz
Main unit dimensions	Width 300 x Length 300 x Height 600 (mm)	
Mass (Weight)	Approximately 2.2 (kg)	
Power cord	Rubber cord Approximate length 2.0 (m)	
Heater	Graphite heater	
Safety device	Anti-tip over double safety switch	

# Preparation before use Please make sure to attach the base to the main unit before use.

## Accessories

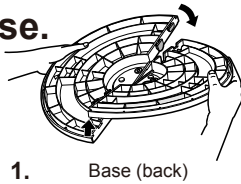
Please check the following items before installing the base.

- Base (semicircle) ..... 2
- screw ..... 3 (attached to the main unit)

## Install the base

### 1. Assemble the base.

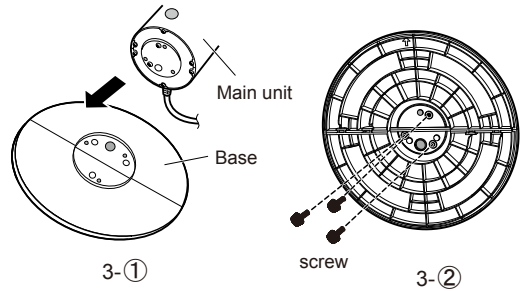
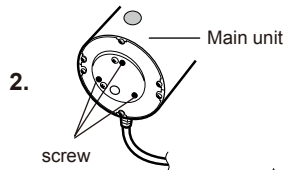
- Turn the base upside down, align the pawl with the groove and snap it in.



### 3. Attach the base to the main unit.

- ① Attach main unit to the base.
  - ② Tighten the three screws securely.
- \* There may be some gaps, but it is not abnormal.

### 2. Remove the screw attached to the main unit.



## How to carry around

- When carrying around, be sure to turn off the power, disconnect the power plug, and wait until the main unit has cooled down.
- Lift the main unit by holding the handle.



- \* Do not drag the power plug and the power cord, and be sure to hold them in your hand.
- \* Please be careful not to damage the floor.

# Correct way of using

**Be sure to use it in the following places at all times for safety.**

Places where the heater is away from flammable materials by the following distance:

- Front / above ..... 3 feet or more
- Sides..... 3 feet or more
- Back..... 3 feet or more

## Notice

Ventilate adequately at the beginning of use. When using for the first time, smoke and smell of paint may be emitted. It will subside as you further use it, but if smoke or smell emerges, please use with sufficient ventilation.

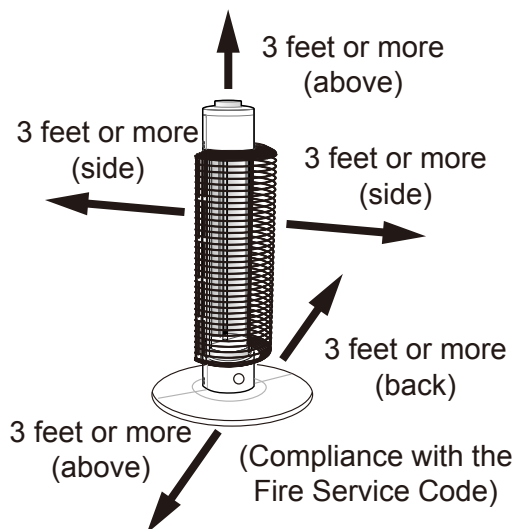
Please do not sit on, or put your feet on top of the main unit. It is dangerous because it may tip over.

Crackling noises may arise while in use. This is due to expansion / contraction by heat.

When the main unit tips over or tilts due to the function of anti-tip over double safety switch, the power supply stops.

When using with low, noise may enter the radio, stereo, etc., so please keep the distance from them.

When changing the direction of the heater section, please do it so by holding the handle on the back.





## 1. Insert the power plug.

- Make sure the prongs of the power plug are not deformed. Please do not use if deformed.

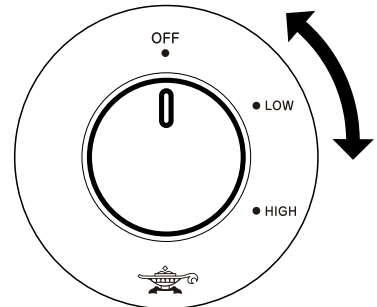
### WARNING



Always connect the power plug to a household outlet (AC 120V) with a capacity of 15A (1500 W) or higher.

## 2. Adjust the switch knob to the desired position.

- There is a difference in brightness and warmth of the heater by using at HIGH or LOW.
- The Power Indicator will illuminate, indicating the heater is on.
- The Power Indicator will not illuminate, indicating the heater is off.



## 3. When finished using, turn the switch knob to "OFF" and disconnect the power plug.

# If you think that heater is malfunctioning

Please read this operator's manual carefully and do the following inspection before requesting the repair. If the problem still exists, please take the product together with the warranty certificate to the vendor you purchased the product from. Incorrect repair leads to a dangerous accident such as fire or electric shock. Do not disassemble and repair it at home.

Situation like this	Inspection	How to fix it
It will not become warm.	● Is the power plug disconnected from the outlet?	● Please insert the power plug into the outlet firmly.
	● Is the circuit breaker burned out?	● Please inspect the circuit breaker.
The power plug becomes abnormally hot.	If the prong insertion part of the outlet is loose, it will retain heat; therefore please check the outlet.	

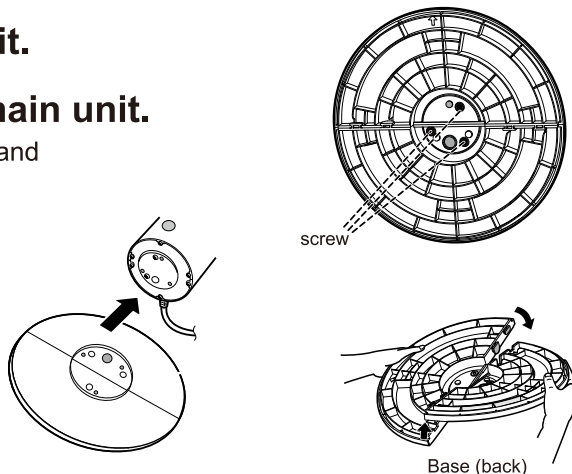


# How to store

## When storing back in the original box

1. Take the dirt off the main unit.
2. Remove the base from the main unit.

- ① Place the main unit on a flat surface and remove the three screws.
- ② Remove the base from the main unit.
  - Please attach those three screws to the main unit to prevent loss.
- ③ Separate the base into two parts.



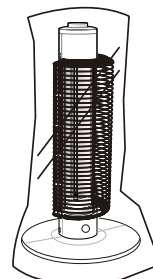
### 3. Bundle the power cord.

- ① Bundle the power cord.
  - ② Place the main unit in a plastic bag and store it in the original box.
- \* Please store in a place with no or little humidity and avoid direct sunlight.

## When storing with the base attached

1. Take the dirt off the main unit.
2. Bundle the power cord.
3. Cover the main unit with a plastic bag.

\* Please store in a place with no or little humidity and avoid direct sunlight.



## How to User Mentenance

- Unplug the heater and let it cool completely.
- To keep the heater clean, the outer housing may be cleaned with a soft, damp cloth. You may use a detergent if necessary.  
After cleaning, dry it with a soft cloth.
- Do not use alcohol, gasoline, abrasive cleansers, furniture polish, or rough brushes to clean the heater. This may cause damage or deterioration to the surface of the heater.
- Do not immerse the heater in water.
- Wait until the heater is completely dry before use.

### Inspection by love

## ● Please inspect the electric heater used for many years!



Have you noticed any symptom like this?

- Even when you turn on the switch, there are times the power does not turn on.
- When you jiggle the cord, there are times the power turns on, but there are times not.
- There are irregular sounds and vibrations when the power is on.
- The power plug / power cord / main unit is abnormally hot.
- There is a burning smell.
- There are other abnormality / malfunction.



Discontinuation of use

In case of such symptoms, please disconnect the power plug from the outlet to prevent malfunction or accident. Consult manufacturer at 1-877-438-4328.

# About after-sales service

## Warranty certificate

- **A warranty certificate is attached separately.**

Please check the descriptions such as “name of vendor / date of purchase” carefully at the vendor of purchase and keep the warranty safely after reading the contents thoroughly.

**Warranty period: 1 year from the date of purchase.**

## Limited Warranty

This unit is guaranteed to the original retail purchaser against defects in quality or workmanship for a period of 1 year from the date of original purchase. If this unit fails because of the manufacturing defect within the return policy of your retailer, return the unit to retailer with original receipt. If the unit fails after 30 days (or after the return policy of your retailer), but within the first year after purchase, please contact the manufacturer at 877-GET-HEAT (877-438-4328). This warranty does not cover damage caused by misuse, abuse, overheating or alterations. Repairs made by any company other than manufacturer are not covered in this warranty. Retailor will not be held liable for any losses due to negligent operation of the unit. All implied warranties, including the warranties of merchantability and fitness of purpose, if applicable, are hereby limited in duration to the period of one year from the date of original retail purchase. Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you. Incidental or consequential damages arising from a breach of either express or implied warranties are hereby disclaimed and excluded. Some states do not allow exclusion of limitation of incidental or consequential damages, so this limitation or exclusion may not apply to you. Upon the expiration of this warranty all such liability will terminate. No other warranties are expressed or implied.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state. No informal dispute settlement mechanisms are available. This limited warranty is given in lieu of all other warranties.

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