

# C1 Grade Paraffin Heater

Natural Ventilation Type Open C1 Grade Paraffin Heater

## Operation Manual

**GLOW WICK 290** Indoor Heating

### Notes:

When using the heater for the first time, please clean the wick of the product before use. After fueling, please wait about 1 hour before igniting and using it. Please be sure to use C1 grade paraffin for this product.

Thank you for purchasing this C1 grade paraffin heater.

- Please read the operation manual carefully before using the product to ensure its correct use.
- Please obtain the warranty card filled with the "date of purchase, name of retailer, etc." from the retailer of this product.

Proper use, means effective savings

**Danger**



Do not use kerosene /gasoline/diesel  
 This product uses:  
 C1 grade paraffin

**CAUTION**

Do not use deteriorated out of date C1 grade paraffin or C1 grade paraffin that contains impurities

**Warning**



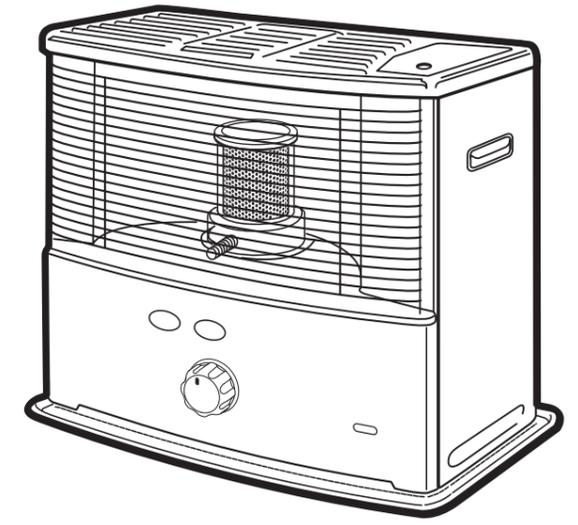
When the product is being used for heating  
 It must be ventilated once or twice per hour



The product is not allowed to be used for drying clothes

Ensure to turn the product off before sleeping

Ensure to turn the product off before refueling



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Before Use

How to Use

Cleaning and Maintenance Storage

## Safety precautions, please ensure to follow them

The precautions indicated here are important safety precautions to prevent injury or damage to you and others. Please be sure to follow them. They are indicated as follows.

The consequences of ignoring these signs and using the product incorrectly are divided into the following three categories.

 <b>Danger</b> Content that has a high risk of causing serious injury or death.	 <b>Warning</b> Content that could cause serious injury or death.	 <b>CAUTION</b> Content that may cause personal injury or material damage.
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The meanings of the labels in this document are as follows.

 This label represents content that "Must be noted".	 This label represents content that must be enforced.
 This label represents "prohibited" content.	

### DANGER

#### Do not use gasoline

- It is strictly forbidden to use volatile combustion oils such as gasoline in this product.



Do not use kerosene gasoline/diesel

### WARNING

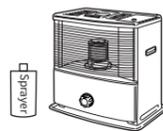
#### Ventilation is required

- Be sure to ventilate during the use of the product. In order to avoid poisoning from a lack of oxygen. In addition, it may cause infants, patients with respiratory diseases, and other people's physical discomfort. Be sure to ventilate 1-2 times per hour for 2/3 minutes each time during the use of the product in order to supplement the fresh air. Please ventilate with a ventilating fan or open two or more windows to ensure adequate ventilation.
- Please do not use this product in basements, places where the windows are frozen, etc., as they cannot be adequately ventilated.



#### Do not contact with spray products

- It is forbidden to place pesticides and other sprays, gas bottles and other products on or around the product. The temperature rise will cause the pressure in the spray tank to rise, which will lead to explosion, fire, and other dangerous accidents.



#### Turn off the C1 grade paraffin heater before sleeping

- Before sleeping or going out, please be sure to extinguish the fire to avoid accidents.



#### Turn off the C1 grade paraffin heater before oiling

- Due to the risk of fire, be sure to turn off the C1 grade paraffin heater and wait for the flame to be completely extinguished before refueling.



#### Oil leak associated danger

- Be sure to tighten the tank lid properly.
- If the tank lid is not on properly, it may result in oil leakage and fire.
- Please carefully check whether there is leakage by turning the tank lid downward.



#### Please install the burner correctly

- To avoid the risk of fire, when using matches and lighters for ignition, please do not place matches and lighters around or on the C1 grade paraffin heater and confirm whether the position of the burner is correct in position.



#### Dry heating is strictly prohibited

- To avoid the risk of fire, it is forbidden to place rice cookers, kettles, and pans without water or foods on the stove.



Model	GLOW WICK 290	
Type	Wick type/ Convective conduction type	
Ignition method	Heating coil ignition	
Fuels	C1 grade paraffin (refers to the high-quality C1 grade paraffin for the product)	
Power	2.90kW	
Fuel consumption	0.281 L/h (226g/h)	
Fuel tank volume	4.4L	
Continuous combustion time	About 15.7 hours	
Heating area	About 18m <sup>2</sup>	
wick	Category	Ordinary cylindrical wick
	Dimensions	Inner diameter of $\phi$ 85mm, thickness of 2.5mm
Safety devices		Seismic automatic flame-out device
		Automatic device extinguishing during refueling
Overall dimensions	587mm (length) * 300mm (width) * 503mm (height)	
Weight	About 9.7 kg	

<b>Routine Inspection</b> 	<b>Please check</b> Whether the following problems are apparent? <ul style="list-style-type: none"> <li>Oil leakage.</li> <li>White smoke, or a pungent odor.</li> <li>Abnormal sounds that occur in the use of the product.</li> <li>A burning smell, irritation to the eyes, etc.</li> <li>Shaking the C1 grade paraffin heater, will not turn it off.</li> <li>Other changes, failures, etc.</li> </ul>	<b>Disposal Methods</b> <b>Stop Using</b> If the above situations occur, please stop using the product. To prevent faults or accidents, please consult the retailer for repairs. ※ Regular maintenance is recommended every two years.
		

If the picture is inconsistent with the actual product, please refer to the actual product.

# Precautions for the Replacement of Parts

Regular maintenance is recommended every two years.

**CAUTION** ■ Be sure to use original accessories only

- "replacement of the wick": Be sure to use original parts only「GLOW WICK-66」, otherwise, incomplete combustion and fire may occur, and serious damage will be caused to the product.
- Refer to the Operation Manual for the replacement of the wick and for the replacement method of the wick.

## Replacement of the burner

- When the burner is seriously deformed or the glass is damaged, please consult the retailer where you purchased the product.

### Note to Users

- Please consult the retailer where you purchased the product when replacing the parts. Do not use parts that do not match the product to avoid accidents or faults.
- Incorrect repair methods are very dangerous. Please consult the retailer where you purchased the product or the repair station for maintenance.

### Consumables and Quick-Wear Parts

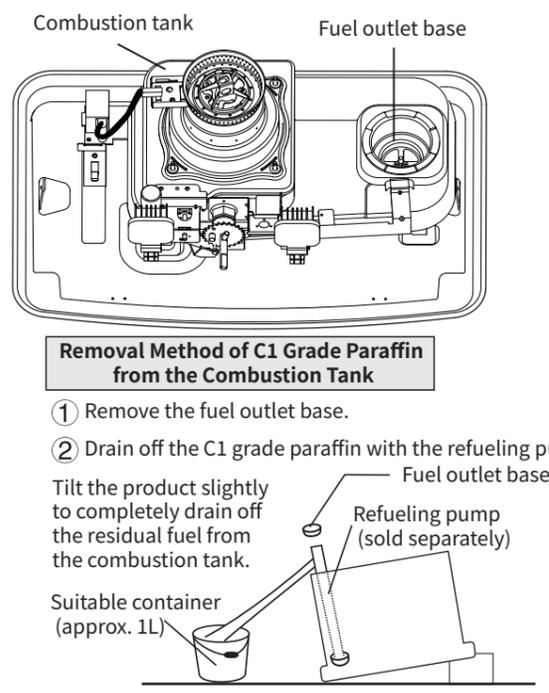
- Parts that may need to be replaced during use  
Wick, battery, burner, ignition electrode
- Parts easy to damage due to the use of deteriorated C1 grade paraffin and C1 grade paraffin that contains impurities:  
Wick

# Storage Method

※ When discarding C1 grade paraffin, please consult the retailer where you purchased the product.

When the product will be not used for a long time **The cleaning and maintenance shall be conducted according to the following steps.**

- 1 Drain the residual C1 grade paraffin in the fuel tank and combustion tank.**
  - When this product will be stored for a long time, please be sure to drain the C1 grade paraffin in the fuel tank and the combustion tank, and completely dry the interior of the fuel tank. Otherwise, it can cause damage to the product. (such as: rust of fuel tank, poor operation of the wick and other problems).
- 2 Clean and maintain the wick and lower it in place ( see Page 12 and 13)**
  - In order to prolong the life of wick to use this product for a long time.
- 3 Be sure to take out the batteries**
- 4 Clean the exterior of the C1 grade paraffin heater**
  - Please clean the top panel, main body, lower reflecting plate, base, and other parts.
- 5 Storage**
  - Please store the product horizontally in a dry place.
  - It is forbidden to place the C1 grade paraffin heater tilted or sideways for storage.



## WARNING

- **Flammable gases are strictly prohibited**
  - Do not place or use volatile products which easily generate flammable gases (volatile oil, thinner, pesticides, etc.) in the room where the product is used, in order to avoid fire or product failure.
- **Do not use it near curtains, bedding and other flammable items**
  - Do not place the product near curtains, clothes, blankets, bedding and other combustible products to avoid fire accidents. Please refer to the picture on Page 5 for specific distances.
- **The product is not allowed to be used for drying clothes**
  - The product is not allowed to be used for drying clothes in case that the clothes fall off and cause combustion or fire.
- **Do not use this product in the windy areas**
  - Please do not use this product outdoors or at the entrance or exit of a room.
  - Do not point the product at the air outlet of exhaust fans, air conditioners and electric fans to avoid abnormal combustion or fire.

## CAUTION

- **Do not use with a large pot**
  - It is forbidden to place a large pot or iron plate beyond the top panel on the C1 grade paraffin heater for fear of insufficient heat dissipation and the horizontal spurt of flames, that may cause abnormal combustion or fire. Do not place kettles, pots, pans, and other utensils on this product to avoid them falling off.
- **No refueling in a room or a place with a fire source**
  - Be sure to refuel outdoors away from fire sources, to avoid fire.
- **The C1 grade paraffin heater in use is not allowed to be moved**
  - Do not move a C1 grade paraffin heater whilst it is in use or a C1 grade paraffin heater that has just been turned off; do not touch the top, front, safety net and other high-temperature parts of the product to avoid causing burns. In addition, overturning of the C1 grade paraffin heater may lead to a fire.
- **Do not use this product in the event of an abnormality or malfunction**
  - The use of this product under the conditions of leakage, odor, smoking or abnormal flame color is prohibited to avoid accidents. Please do not panic when there is an emergency and turn off the C1 grade paraffin heater.
- **Confirmation of normal combustion ( see Page 10)**
  - Too small a flame may cause incomplete combustion, odor, excessive carbon monoxide, and other issues. In addition, it will cause damage to the product.
- **Do not place kettles, pots and other utensils on this product**
  - Do not put kettles, pots and other utensils on the product, otherwise the hot water in these utensils may overflow due to vibration or contact, resulting in scalding.
  - If water falls to the burning part, it may lead to abnormal combustion or fire.
- **Do not use inferior C1 grade paraffin**
  - Do not use of deteriorated C1 grade paraffin (expired C1 grade paraffin, etc.) and C1 grade paraffin that contains impurities (C1 grade paraffin mixed with other oil, water, impurities, etc.).
  - There may be abnormal combustion or wick operation failure.
- **When the flame cannot be put out via the emergency extinguishing button, please adjust the wick adjustment button to the extinguish position to extinguish**
  - Please make sure that the flame of the C1 grade paraffin heater has been extinguished. The extinguishing failure is mostly caused by the attachment of tar to the wick. Please immediately carry out the "Cleaning and maintenance of wick". ( see Page 12 and 13).

Precautions before use

## CAUTION

### Please stop using this product when there is localized large flames or red-hot spots.

- The above phenomenon is the main cause of smoke and incomplete combustion.



### Do not touch high-temperature parts

- Do not touch the combustion parts or high temperature parts (top panel, safety net, etc.) during combustion or shortly after extinguishing to avoid burns.
- Families with small children or incapacitated people should pay special attention to avoid accidents.



### Do not be exposed to heat radiation for a long time

- To avoid low temperature burns or dehydration symptoms.

Please pay close attention to children, the elderly, and other who cannot independently operate this product.



#### Common knowledge on low-temperature burn

- Even at a relatively low temperature (40°C~60°C), if the same part of the skin is exposed to heat radiation for a long time, it may cause the skin to swell, peel and other low-temperature burn symptoms.
- Pay special attention to the following people for protection!
  - Young children, the elderly and people with weak skin.
  - People who take medication that causes them to feel tired (sleeping pills, cold medicines, etc.) and people who are drunk.
  - People with deep fatigue.

### Do not use the product if the glass of the burner is broken

- To avoid abnormal combustion or smoke, when the glass of the burner has a gap or is broken, it is forbidden to use this product.



### Extinguish the product and remove the fuel tank

- Please handle the product with care and do not tilt the C1 grade paraffin heater. Especially when going up and down stairs, please pay special attention to the possibility of an oil leakage.
- In the case of moving, please be sure to take out the fuel tank first, and empty the residual C1 grade paraffin in the combustion tank.



Do not tilt or place the product sideways during handling.

### Do not mix old and new batteries or different types of batteries

- Please install the batteries correctly according to the positive and negative electrodes.
- Please be careful not to generate a short circuit.
- To avoid battery rupture and leakage, please do not break, heat, or put the batteries into the fire.



### Do not drag the C1 grade paraffin heater

- In order to avoid damage to the ground or carpet, also, this may cause the paint in the bottom of the product to peel off.



### Do not re-ignite within 2 minutes after extinguishing

- Avoid C1 grade paraffin volatilization, which will produce a pungent smell and an abnormal flame.



### Do not throw match residue into the interior of the C1 grade paraffin heater or place matches on the top panel

- Due to the risk of fire, it is forbidden to place lighters on the top, front, or near the C1 grade paraffin heater.



### When stopping use or storing the product for a long time, empty the C1 grade paraffin and remove the batteries.

- To avoid oil leakage or fire, please do not tilt or place the product sideways during storage.



### Original parts must be used

- The wick and other important parts must be original products to avoid accidents.

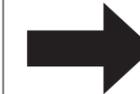


## Cleaning and maintenance of the wick (dry burning and cleaning method)

- The cleaning and maintenance of the wick will produce an odor, please place the product in an outdoor shelter for cleaning.
- If you clean the product in a windward area, there may be abnormal combustion or fire, therefore, be sure to clean it in a sheltered area.

If there is tar or carbon deposit on the top of the wick, the following phenomena may occur.

- Insufficient heat in the burner.
- Producing a pungent odor.
- No smooth up and down adjustment of the wick.
- Difficult ignition.
- During extinguishing, the wick adjustment button cannot be returned to its original position.



If any of the above phenomena occur, clean according to the following methods.

- After draining off the C1 grade paraffin in the fuel tank, install the fuel tank onto the main body.
- Ignite it and allow it to burn.
- Burn the C1 grade paraffin heater until it goes out naturally (about 60 minutes).

### Note to Users

- If there is no improvement after cleaning the wick using the above method, please add fuel to the wick again and wait for about 30 minutes (to make the wick fully absorb C1 grade paraffin) before cleaning the wick again with the above method. If there is no effect after the wick is cleaned again, replace the wick with new one. (see Page 14)

### CAUTION

- When a clean wick is re-used, please refuel and wait for 30 minutes (to allow the wick to fully absorb the C1 grade paraffin) before ignition.

## Regular Maintenance

### Regular maintenance is recommended (once every two years)

- The product should be repaired and maintained after long-term use. According to the standard of once every two years, at the end of the use period, it is recommended to contact the professional maintenance department of the product of the retailer or the maintenance station to apply for regular maintenance.

## Common Faults and Troubleshooting

### Notes before applying repair service:

Please check again according to the following table. If it is confirmed that the product cannot be repaired, please contact the retailer from who the product was purchased or our company.

Symptom	During ignition		During combustion				During extinguishing			Treatment Method	Reference Page		
	Failing to ignite, difficult to ignite	Slow spread of flame	Flame too small	There is red flame or smoke during combustion	The burner cannot become red hot and there are spots	Flame offset, flame adjustment failure	Failure to extinguish, difficult to extinguish	Wick falling to lower	Producing pungent odor				
Reason													
Fuels	There is deteriorated C1 grade paraffin or C1 grade paraffin containing impurities	●	●	●	●	●	●	●	●	●	●	Discard the fuel, replace the wick and use high-quality C1 grade paraffin. Please consult with the retailer where the product was purchased for the method of discarding C1 grade paraffin.	14
	Use of volatile oils such as gasoline				●		●	●			●		
Wick	Wick too high				●		●	●			●	Adjust the wick to a lower position to make the flame burn normally.	10
	Wick too low		●	●		●					●	Adjust the wick to a higher position to make the flame burn normally.	10
	Tar attached	●	●	●		●	●	●	●	●		Clean and maintain the wick.	13
	Wick failing to absorb C1 grade paraffin	●	●	●		●						When using for the first time, after wick maintenance (after dry-burning and cleaning) and when replacing the cotton wick, please fuel and wait for 30 minutes.	13
	Wick deformation, excessive consumption	●	●	●		●						Replace the wick.	14
	Wrong installation of batteries or battery run down	●										Install or replace the batteries correctly according to the positive and negative electrode instructions.	6
	Fuel tank not installed	●										Install the fuel tank to the main body.	7
	Wrong installation of the burner				●	●	●				●	Install the burner correctly.	8
	Deformation or damage of burner				●	●	●				●	Replace with a new one.	14

## Daily Maintenance, Cleaning and Maintenance Methods

Before cleaning and maintenance, please turn off the heater and wait for the C1 grade paraffin heater to cool down completely.

### Precautions for use

Maintenance Part	Maintenance Items	Treatment Method
Around the C1 grade paraffin heater	<ul style="list-style-type: none"> <li>Confirm whether there are combustible objects and obstacles.</li> </ul>	<ul style="list-style-type: none"> <li>Clean up and clean the surrounding of the C1 grade paraffin heater and put away combustibles.</li> </ul>
Base Fuel tank	<ul style="list-style-type: none"> <li>Check whether there is no residual C1 grade paraffin.</li> <li>Check whether there is a leakage.</li> </ul>	<ul style="list-style-type: none"> <li>Wipe it to remove drops, leaking, residual or oozing fuel.</li> <li>In case of leakage, the fuel tank should be replaced with a new one. (For details, please consult the retailer where you purchased the product)</li> </ul>
Appearance (main body, lower reflecting plate, base and so on)	<ul style="list-style-type: none"> <li>Check whether there are oil stains or other dirt.</li> </ul>	<ul style="list-style-type: none"> <li>Wipe it with a dry soft cloth. (Do not wipe it with volatile oil, thinner, detergent, etc.)</li> </ul>
Appearance (Top panel)	<ul style="list-style-type: none"> <li>Check for flammable substances or dirt.</li> </ul>	<ul style="list-style-type: none"> <li>Wipe it with a damp and soft cloth dipped in detergent. (It is easy to remove stains, as the top panel is treated with enamel)</li> </ul>
Burner	<ul style="list-style-type: none"> <li>Check whether there is deformation.</li> <li>Check whether the glass is broken and if there are marks which cannot be removed through wiping.</li> </ul>	<ul style="list-style-type: none"> <li>Replace the burner. (For details, please consult the retailer where you purchased the product)</li> </ul>
Fuel tank	<ul style="list-style-type: none"> <li>Check whether the fuel tank and the tank lid are free from rust, deformation and damage.</li> </ul>	<ul style="list-style-type: none"> <li>Please replace the fuel tank and the tank lid if there are rust, deformation and damage on them. (For details, please consult the retailer where you purchased the product)</li> </ul>
Battery	<ul style="list-style-type: none"> <li>Check whether it is difficult to ignite and the igniter is off after ignition.</li> </ul>	<ul style="list-style-type: none"> <li>Replace the batteries with new batteries. (four C type batteries)</li> </ul>

### Monthly Maintenance (at least once every month)

Maintenance Part	Maintenance Items	Treatment Method
Combustion parts (Outer cylinder of wick, upper part of inner cylinder, etc.)	<ul style="list-style-type: none"> <li>Confirm the presence of tar or impurities.</li> </ul>	<ul style="list-style-type: none"> <li>Take out the burner, use a straight screwdriver or brush to remove combustion charcoal and residue.</li> </ul>
Seismic automatic extinguishing device	<ul style="list-style-type: none"> <li>Shake the main body horizontally to confirm whether the extinguishing device starts normally and observe whether the wick adjustment button is turned to the extinguish position.</li> </ul>	<ul style="list-style-type: none"> <li>If the product does not work properly, please negotiate with the distributor to solve the problem.</li> </ul>

Be sure to observe the following items.

- Do not disassemble and debug the seismic automatic extinguishing device without authorization.
- Do not cut or pull the wick.

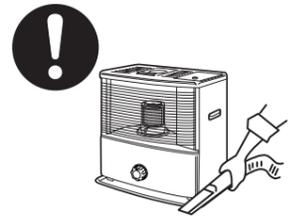
### Quarterly Maintenance (once or more every quarter)

- Clean the dust from the base and its interior. The dust may cause abnormal combustion.

## CAUTION

### Dust removal

- Please clean the dust from the base at any time. The accumulation and blockage of debris and dust may cause abnormal combustion.
- Please clean the dust around the combustion area, the lower reflecting plate and other parts at any time. Excessive accumulation of debris and dust may ignite residual debris and dust when igniting when using matches, which easily causes fire.



### In case of an accident, do not panic and use a fire extinguisher to put out the fire.

- When the flame jumps out of the C1 grade paraffin heater or the floor catches fire due to abnormal combustion, do not panic and use a fire extinguisher to put out the fire.



### Please clean up the C1 grade paraffin before discarding the C1 grade paraffin heater.

- When this product is abandoned, please be sure to use the refueling pump sold to drain the C1 grade paraffin in the fuel tank and the combustion tank, and take out the battery. Do not discard C1 grade paraffin and batteries together in order to avoid accidents during recycling.



### No dis-assembly, repair and transformation of the product

- It is forbidden to transform the product.
- Except repair technical personnel, other non-professional personnel are prohibited to dis-assemble and repair this product without authorization.
- Please stop using the product in case of failure or damage in order to avoid abnormal combustion and fire.



### Precautions for storage

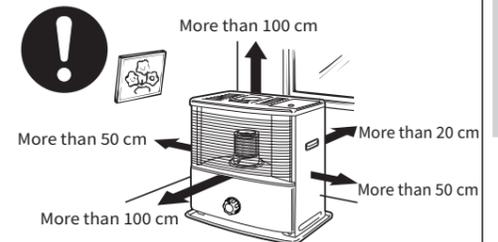
- Drain C1 grade paraffin and take out the batteries when stopping use or storing the product for a long time. It is forbidden to place the C1 grade paraffin heater tilted or sideways for storage, as it may cause fire.



### Precautions of Site of Use

#### Keep it away from combustibles during use

- Please keep it away from the partition or screen according to the distance marked in the picture on the right to avoid fire accidents during use.



#### Do not use this product in places where spray products and chemicals are used. For example: (physiotherapy/beauty salon, laundry, paint finishing, degreasing, cleaning factories, etc.)

- Because chlorofluorocarbons, chlorinated solvents and other chemicals may generate toxic gases which are harmful to health. It can also cause damage to mirrors or glass, cause metal to rust, cause discoloration or damage to fiber products, cause product failure and so on.

#### Do not use this product in the following places

- Uneven places or in places where there is vibration
- Under a shelf where objects fall easily
- Windward places, entrances and exits of rooms
- Places where combustible gases occur or gather
- Uninhabited places (greenhouses, feeding houses, etc.)
- Places with high altitude (above 1000m)
- Relatively closed places
- Places with a lot of dust, damp, or metal powder
- Places with poor ventilation
- Places under the conditions of direct sunlight and high temperature (such as the places with poor heat dissipation or subject to other heat sources)



To avoid fire accidents.

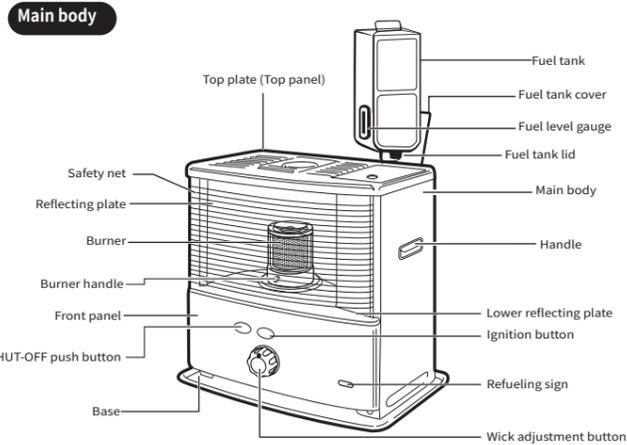
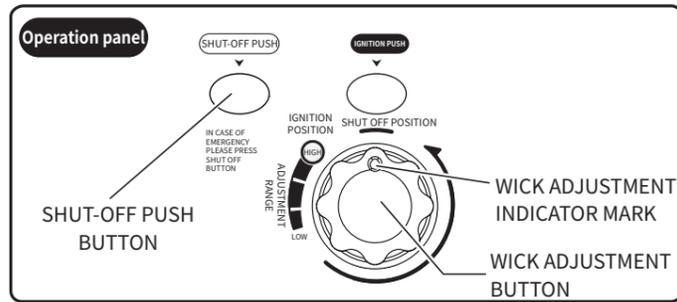


In order to avoid incomplete combustion.



In order to avoid the danger of air expansion, C1 grade paraffin overflow and leakage in the fuel tank.

# Part Name and Function



# Preparations before Use

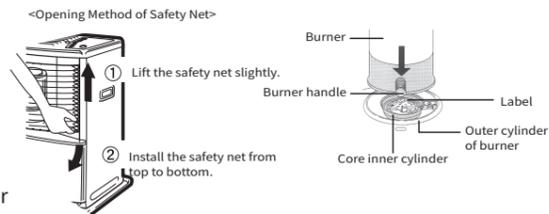
## Preparation and Confirmation before Ignition

### Take out the C1 grade paraffin heater

- Remove the packaging materials of all parts. Please refer to "Unpacking Method" on the packaging box for the detailed method

### Properly install the burner

- Please open the safety net according to the picture on the right.
- Remove the packaging material protecting the burner and install the burner.
- After the handle of the burner is facing the front, place the burner vertically on the outer cylinder of the core, hold the handle of the burner and turn it left and right 2~3 times, and adjust the burner to the center position.
- If the burner is tilted or not placed in the correct position, it will produce an odor or suppress odor and smoke.
- Please confirm whether the wick adjustment button, extinguish button and ignition button operate normally.



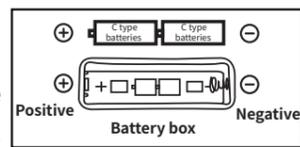
### Confirm the placement of the C1 grade paraffin heater

- The C1 grade paraffin heater should be placed on flat and firm ground.
- If the heater cannot be placed horizontally, please move it to a flat position and re-position it.

### Install the batteries (four C type batteries)

- Batteries purchased separately
- Prepare four new C type batteries
- When installing the batteries, please confirm the positive and negative poles and install them correctly. Please install the batteries in the sequence of ①, ②, ③ and ④ in the left picture. (If the batteries are installed incorrectly, it may cause the deformation of negative shrapnel.)
- Service life of batteries (about 5 months, when used 5 times a day): Alkaline dry battery: about 2 quarters; manganese dry battery: about 1 quarter
- If you use different types of batteries, or a mix of old and new batteries, it may lead to battery liquid leakage or rupture.

(Back of main body)



## Regulations on Use of Fuel

※ Please be sure to use C1 grade paraffin (C1 refers to the special C1 grade paraffin for the product) for the fuel of this product.

### DANGER



Do not use kerosene /gasoline/diesel

### Do not use kerosene /gasoline/diesel

- High volatile fuel such as gasoline is strictly prohibited, as it will cause fires.

### CAUTION



### Do not use deteriorated out of date C1 grade paraffin or C1 grade paraffin that contains impurities

- No use of deformed and expired C1 grade paraffin (waste C1 grade paraffin) and C1 grade paraffin that contains impurities (C1 grade paraffin containing water, impurities, etc.).

### Differentiation method of C1 grade paraffin and gasoline

Dip your fingertip into a little bit of fuel and blow them. (Please conduct the test in a place far away from fire source)



C1 grade paraffin will remain moist.



Gasoline will immediately evaporate and become dry.

(If you cannot identify them clearly, please consult the retailer where you purchased the product)

### Do not use deteriorated out of date C1 grade paraffin or C1 grade paraffin that contains impurities

#### Definition of Deteriorated C1 Grade Paraffin

- Old C1 grade paraffin (C1 grade paraffin before the previous season).
- C1 grade paraffin kept in places in direct sunlight and high temperature for a prolonged period of time.

(Especially if kept in a transparent white tank or the fuel tank with an open lid, C1 grade paraffin can deteriorate in a very short period of time.)

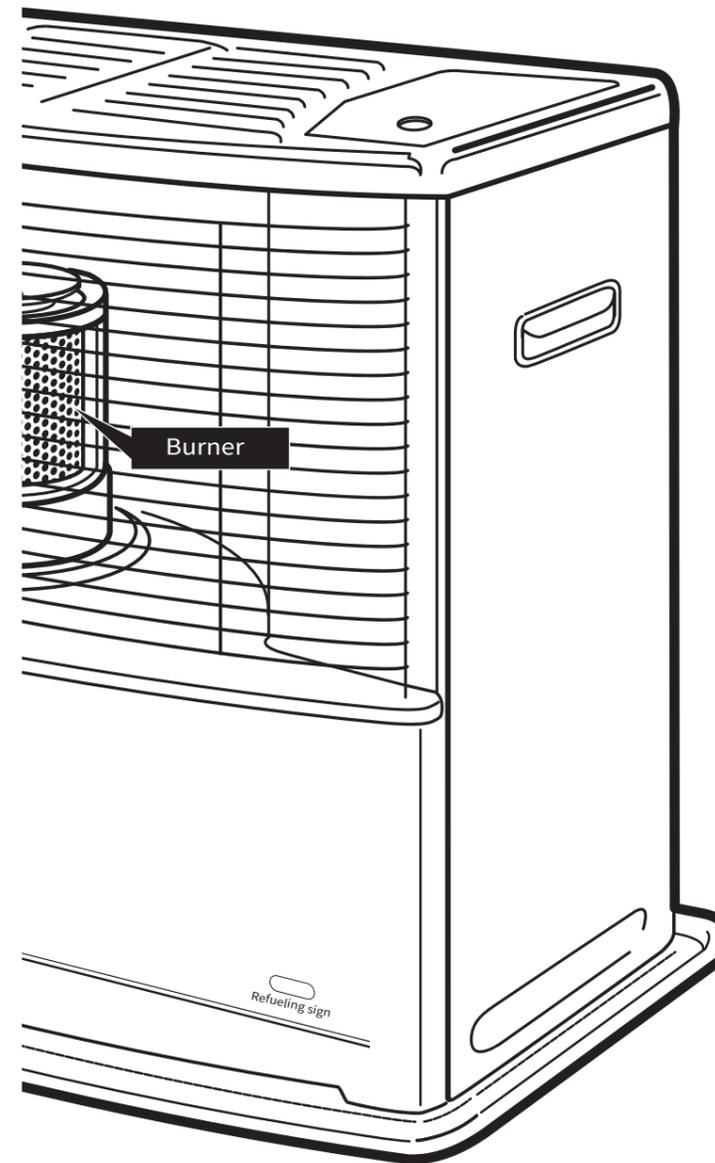
Seriously deteriorated C1 grade paraffin is yellow and has a sour smell.

#### Definition of C1 Grade Paraffin that Contains Impurities

- Refers to the fuel mixed with a small amount of fuel other than C1 grade paraffin (culinary oil, machine oil, heavy oil, diesel oil, gasoline, thinner), etc.
- C1 grade paraffin mixed with water, impurities, pot rust and other foreign matters.
- C1 grade paraffin, with C1 grade paraffin additives, fuel additives and other foreign matters.

## Note to Users

- Please observe and adjust the flame slowly. Quick adjustments will cause the fire to behave suddenly, which may lead to the flames or smoke coming out from the top plate.
- Please adjust the flame size according to the flame status.
- Please keep opening and closing the windows for ventilation and adjust the indoor temperature accordingly.



## Seismic automatic extinguishing device

If there is a strong earthquake or large impact during use, the wick will automatically drop and extinguish.

- When a vibration of 100~195gal occurs, the anti-seismic automatic extinguishing device acts.
- After the anti-seismic automatic extinguishing device acts and turns off the product due to an earthquake. When re-igniting the product, please confirm that there are no combustible materials around the product, that the product works normally, there is no overflow of C1 grade paraffin, etc., before re-igniting.

In order to ensure the normal operation of the anti-seismic automatic extinguishing device, please pay attention to the following items:

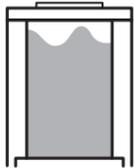
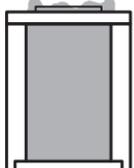
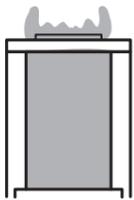
- In the case of tar attached to wick, the anti-seismic automatic extinguishing device may not start normally. Because there is tar on the wick, it is necessary to extinguish the fire through the emergency extinguish button. If the wick adjustment button cannot return to the extinguish position, clean the wick immediately. (see Page 12 and 13)

# Instructions for Use Adjustment method of flame size

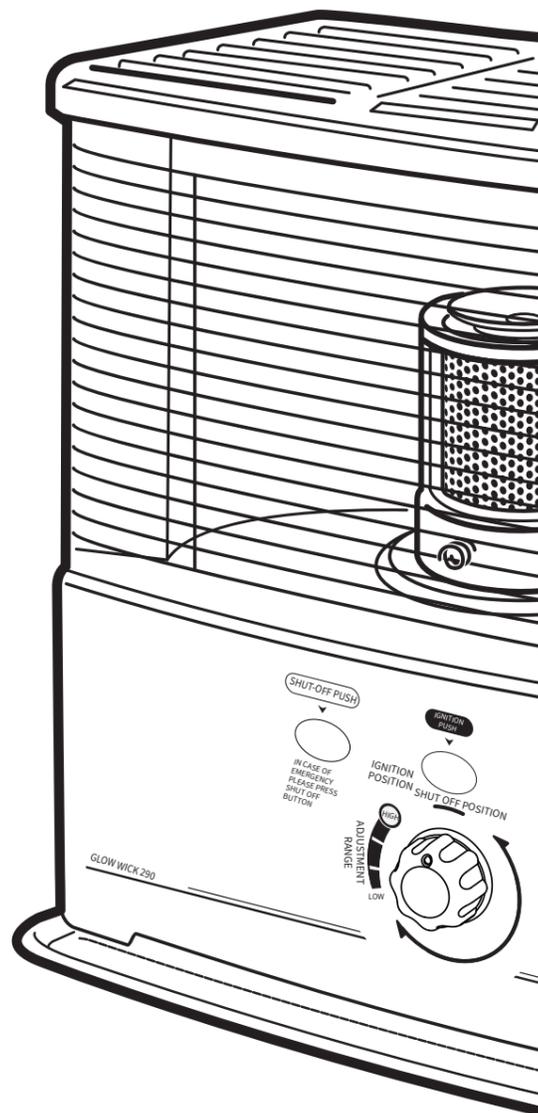
## After igniting the C1 grade paraffin heater, be sure to adjust the flame size.

- Adjust the flame size with the wick adjustment button.
- When there is localized flame jump or red-hot spot, please adjust the burner handle "2-3 times" to make the flame stable.
- When the flame burns out due to the rotation of the burner, the wick adjustment button will be slightly raised to adjust the flame so that it is in the range of "normal flame".

## Flame Status Standard

<b>X</b>	<p><b>a. Flame too small</b></p> <p>If the height of the wick is too low during the use of the product, abnormal phenomena such as incomplete combustion, strong odor, and the generation of carbon monoxide will occur, which will damage the product.</p> 
<b>O</b>	<p><b>b. Normal flame</b></p> <p>Please use the product with the length of flame rising over the upper plate within the range of 1~3cm.</p>  <p style="text-align: center;">Flame length 1-3cm</p>
<b>X</b>	<p><b>c. Flame too large</b></p> <p>If the flame is too large it will cause excessive flames and smoke, and will cause damage to the machine.</p> 

- About 3 minutes after the C1 grade paraffin heater is ignited, the lower part of the burner begins to heat up slowly.
- About 5 minutes after the C1 grade paraffin heater is ignited, the burner as a whole becomes hot.
- After igniting the C1 grade paraffin heater for 2-3 minutes, turn the burner handle 2-3 times to make the flame stable as it rises.
- When the flame is in a stable state, please adjust the wick adjustment button up and down so that the flame is in a normal state.



## Notices for Use of Fuel

### Identification method of defective C1 grade paraffin

It is difficult to master the identification method of defective C1 grade paraffin such as deteriorated C1 grade paraffin and C1 grade paraffin that contains impurities, however, we have formulated a standard to identify it. Please prepare two transparent cups, one filled with water, the other filled with C1 grade paraffin, and then put a white sheet in the back of two cups.

If there is little color change on the white sheet, it can be judged as defective. If C1 grade paraffin goes bad due to ultraviolet light exposure, it is difficult to see the C1 grade paraffin discoloration, therefore, it is also very difficult to identify it. After C1 grade paraffin is used for a summer, even if it looks colorless and transparent, it cannot be used.

- If the color of water and C1 grade paraffin cannot be distinguished, then the C1 grade paraffin is judged as high quality C1 grade paraffin.
- If slight discoloration occurs on the cup with C1 grade paraffin, the C1 grade paraffin cannot be used.



- **If deteriorated C1 grade paraffin and C1 grade paraffin that contains impurities is used, the abnormal accumulation of tar will occur in the wick within 1-30 days and the following adverse conditions will occur**
  - Poor ignition, wick operation difficulty for extinguishing or extinguishing failure of heater.
  - Occurrence of smoke and strong smells.
  - Insufficient heat in the burner, abnormal combustion, etc.
- **If the use of C1 grade paraffin containing water, the following adverse conditions will occur**
  - Poor ignition, ignition failure or extinguishing failure of the C1 grade paraffin heater.

- Because the wick contains water.
- The fuel tank or the combustion tank has rusted..

### Disposal method for accidental use of deteriorated C1 grade paraffin and C1 grade paraffin that contains impurities

- Replace the C1 grade paraffin in the fuel tank and combustion tank. (see Page 14)
- Cleaning and maintaining the wick (see Page 12 and 13). If the repair cannot be made through maintenance and cleaning, please consult the outlet where you purchased the product. (Replace the wick)

If after-sales service is required due to the use of deteriorated C1 grade paraffin and C1 grade paraffin that contains impurities, the service fee shall be paid even if the product is within the warranty period.

### Proper storage of C1 grade paraffin

- Keep C1 grade paraffin away from fire, rain, dust, impurities, high temperatures, and direct sunlight.
- Do not use C1 grade paraffin left over from the previous season. Please use up C1 grade paraffin before the end of the season.
  - Please put the C1 grade paraffin into a special clean container and keep it in a place free from direct sunlight. Please use red or blue colored polyethylene containers (for C1 grade paraffin) for storage. Please properly cover the polyethylene container.
  - Please use the fuel tank with the recommended label for C1 grade paraffin on the market.
  - Please do not store C1 grade paraffin in containers for a long time.
  - Protect the polyethylene container from rain to prevent the C1 grade paraffin from being mixed with rain, thus causing poor combustion and other problems.



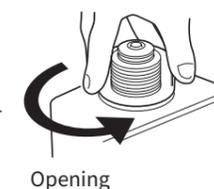
## Refueling method

Please make sure the fuel tank is dry before refueling. If water enters the fuel tank, it may lead to poor ignition, poor absorption of the wick, rust and other problems.

### 1 Take out the fuel tank and turn it upside down to open the tank cap.

#### Opening method of fuel tank

- Turn the fuel tank cap to the left.
- Clean the C1 grade paraffin that leaked out when removing the fuel tank.
- Be careful not to let sand or other particles attach to the tank lid or enter the tank lid so as to avoid poor rotation.
- Confirm whether the fuel tank opening and the tank lid is free from rust, deformation, poor rotation and damage.

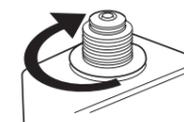


( Please refer to "Inspection of Fuel Tank" on Page 12)

### 3 Tighten the tank lid

#### Tightening method of tank lid

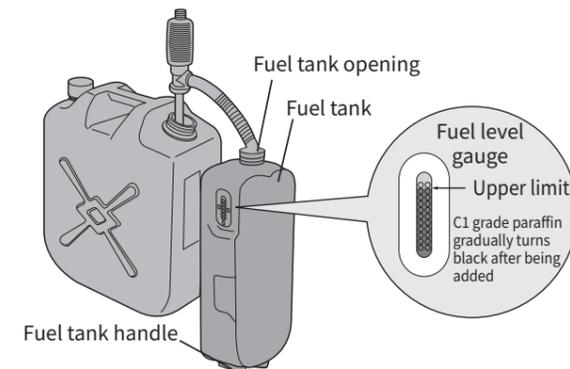
- Turn the tank cap to the right until it cannot be turned.
- Be sure to keep the fuel tank opening of the tank facing down and away from the fire source to check for leakage.
- This product is attached with "Refueling sign" to remind you to refuel the product.



**Warning** Before refueling, please be sure to extinguish the C1 grade paraffin heater and move it to a place far from any fire source.

### 2 Refueling

- As shown in the picture below, look at the fuel level gauge while adding, so as to not exceed the upper limit of the oil level.



### Refueling Tips

- When the amount of fuel decreases, the refueling sign turns red.
- C1 grade paraffin will be used up approximately 1 hour after the sign turns completely red.



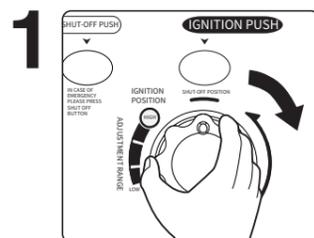
- When the "Refueling sign" turns red, please turn off the C1 grade paraffin heater for refueling.
- There will be a yellowing around the fuel tank opening, which is normal.

# Instructions for Use Ignition and Extinguishing Methods

## Ignition

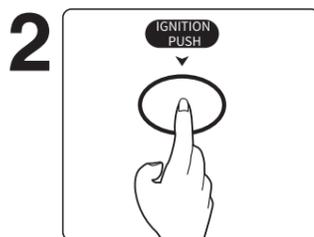
When using the product for the first time, dry burning for cleaning, and after replacing the wick, please be sure to wait for 30 minutes before igniting and using the product.

### Electronic Ignition Method



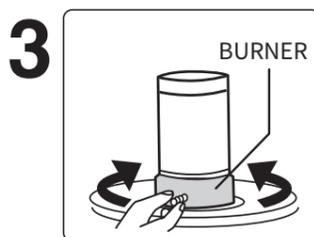
**1 Turn the wick adjustment button clockwise to the ignition position**

- Turn the wick adjustment button clockwise so that the wick is fully exposed.



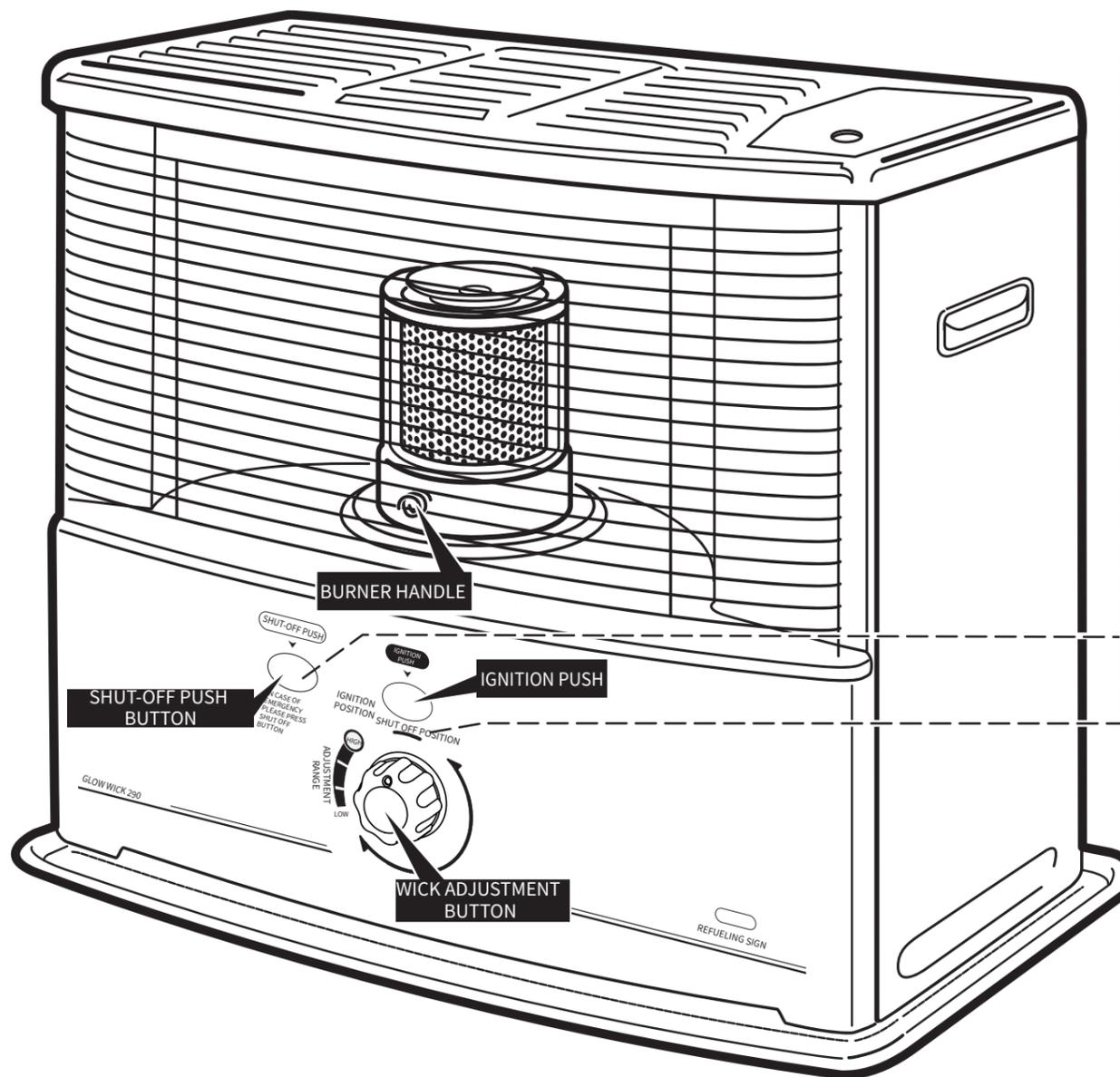
**2 Press down the Ignite button and observe whether the wick is ignited.**

- There will be a little bit of a smell after ignition.
- About 5 minutes after ignition, the C1 grade paraffin heater will make normal "bang bang" sound.
- After confirming that the C1 grade paraffin heater has been ignited, please release the button.
- In case of ignition failure, please press the ignition button again for re-ignition.



**3 Validate the burner position**

- Rotate the handle of the burner 2~3 times to bring it to the center position.
- Please confirm whether the burner is directly above the inner cylinder of the core.



### Note to Users

- Combustion tests at the factory may result in the wick being soaked in C1 grade paraffin, so ignition before fueling may also ignite the C1 grade paraffin heater.
- A few minutes after the C1 grade paraffin is ignited for the first time, the combustion of fuel that was attached in the production process may produce peculiar smell.
- Precautions for the fuel tank: Be sure to install the fuel tank before igniting the C1 grade paraffin heater.

### IMPORTANT:

#### Maintaining room temperature

Install double curtains and ensure that the bottom reaches the ground so that heat is not easily lost from the room after the C1 grade paraffin heater is turned on and the indoor temperature can be maintained for a long time.

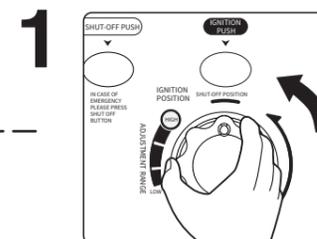
#### When your hands have C1 grade paraffin on them

Please wash your hands with washing powder and then wash them twice with soap to remove the smell of C1 grade paraffin.

#### Clean up C1 grade paraffin as soon as it falls on the ground

Sprinkle washing powder on the C1 grade paraffin to absorb oil stains, and then wipe it with a dry cloth

### Normal extinguishing (Odor suppression)



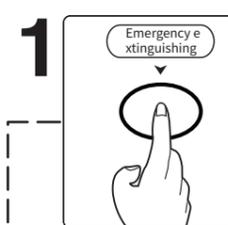
**1 Turn the wick adjustment button anticlockwise to the ignition position**

- Slowly move the wick adjustment button to the "Extinguish position", then it is extinguished. (Pushing the wick adjustment button up quickly produces a strong smell.)

**2 Confirm flame extinguishing**

- In order to reduce the odor, please leave a small flame to burn slowly for 3~5 minutes and then put out the flame.
- Please make sure that the wick adjustment button is in the "extinguish position" and that the flame has been completely extinguished.

### Emergency extinguishing (under the situation of emergency extinguishing)



**1 Press emergency extinguishing button**

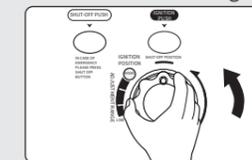
- In the case that the heater has to be turned off quickly, a strong smell and smoke will be generated.

**2 Make sure that the flame of the C1 grade paraffin heater is extinguished**

- Please make sure that the wick adjustment button is in the "extinguish position" and the flame has been completely extinguished.

### Extinguish failure ( the wick adjustment button can not return to the "extinguish position")

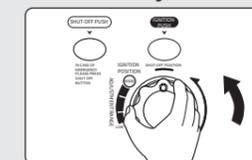
- Tar attached to the top of the wick causes the wick adjustment button to fail to return to its original position



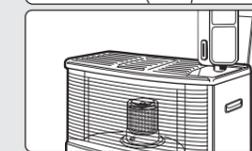
When this happens, push the wick adjustment button back to the extinguish position.

Perform "Cleaning and Maintenance of wick" ( See Page 13)

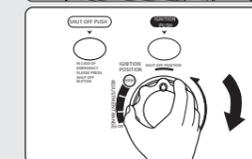
### When the wick still fails to drop and extinguish through pressing down the emergency extinguish button and lifting the wick adjustment button



Pull up the wick adjustment button hard to lower the wick.



After draining off the C1 grade paraffin in the fuel tank, install the fuel tank on the main body.



Keep the wick burning until the flame is completely out. ( See Page 13)

**When this happens, please contact the retailer where you purchased the product or the Service Department of our company.**