

# Clarke®



## DEVIL QUARTZ HALOGEN HEATER

MODEL NO: DEVIL 370SPD

PART NO: 6920259

## OPERATING & MAINTENANCE INSTRUCTIONS



ORIGINAL INSTRUCTIONS

DL1123 Rev 1

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## INTRODUCTION

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Thank you for purchasing this CLARKE Quartz Halogen Infra-red Heater.

Before attempting to use this product, please read this manual thoroughly and follow the instructions carefully. In doing so you will ensure the safety of yourself and that of others around you, and you can look forward to your purchase giving you long and satisfactory service.

## GUARANTEE

This product is guaranteed against faulty manufacture for a period of 12 months from the date of purchase. Please keep your receipt which will be required as proof of purchase.

This guarantee is invalid if the product is found to have been abused or tampered with in any way, or not used for the purpose for which it was intended.

Faulty goods should be returned to their place of purchase, no product can be returned to us without prior permission.

This guarantee does not effect your statutory rights.

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## SPECIFICATIONS

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Model Number	Devil 370SPD
Part Number	6920259
Weight	13.8 kg
Dimensions (LxWxH) mm	630 x 610 x 810
Rated Input Wattage	2.8 kW (2 x 1.4kW)
Rated Input Amperage	12.17 A
Supply Voltage	230V - 50Hz
Fuse Rating	13 A
Ingress Protection Class	IP20
Duty cycle	Continuous

**THE FOLLOWING TABLE ADDRESSES THE INFORMATION REQUIREMENTS OF REG.2015/1188**

Item	Symbol	Value	Unit
<b>Heat output</b>			
Measured seasonal space heating energy efficiency			35%
Nominal heat output	$P_{nom}$	2.8	kW
Minimum heat output (indicative)	$P_{min}$	1.4	kW
Maximum continuous heat output	$P_{max}$	2.8	kW
<b>Auxiliary electricity consumption</b>			
At nominal heat output	$el_{max}$	n/a	kW
At minimum heat output	$el_{min}$	n/a	kW
In standby mode	$el_{SB}$	0.001kw	kW
<b>Type of heat input for electric storage local heaters only</b>			
Manual heat charge control with integrated thermostat			No
Manual heat charge control with room and/or outdoor temperature feedback			No
Electronic heat charge control with room and/or outdoor temperature feedback			No
Fan assisted output			No
<b>Type of heat output/room temperature control (select one)</b>			
Single stage heat output, no temperature control			No
With mechanical thermostat temp control			No
With electronic temperature control			Yes
Electronic temperature control with day timer			No
Electronic temperature control with week timer			No
<b>Other control options (multiple selections possible)</b>			
Room temperature control with presence detection			No
Room temperature control with open window detection			Yes
Room temperature control with distance control option			No
Room temperature control with adaptive start control			No
Room temperature control with working time limitation			Yes
Room temperature control with black bulb sensor			Yes

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## SAFETY RULES

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Make sure that you read, understand and comply with the following.



**WARNING: THIS PRODUCT IS ONLY SUITABLE FOR WELL INSULATED AREAS AND IS NOT DESIGNED TO BE THE PRIMARY HEAT SOURCE.**

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### SAFE WORKING PRACTICES

1. **DO NOT** operate the heater when you are tired or under the influence of alcohol, drugs or intoxicating medication.
2. **DO NOT** stand on the heater.
3. **DO NOT** use the heater with wet hands or when there is water on the power cable.
4. Turn the heater off when not in use and keep it in a safe, dry location.
5. The heater is designed to heat enclosed areas, such as workshops and other industrial areas. **DO NOT** use the heater for any other function. It is not suitable for drying clothes or laundry.

### ELECTRICAL SAFETY

1. Electrical appliances must match the power outlet. **NEVER** modify the plug in any way. **DO NOT** use adaptor plugs with earthed (grounded) appliances. Correct plugs and outlets will reduce the risk of electric shock.
2. **DO NOT** abuse the electrical cable. **NEVER** use the cable for pulling or unplugging the heater. Keep the cable away from sources of heat, oil, sharp edges or moving parts. Damaged or tangled cables increase the risk of electric shock.
3. Keep the power cable well away from machines and ensure an adequate electrical supply is close at hand so that the operation is not restricted by the length of the cable.
4. **ALWAYS** disconnect from the power supply before moving the heater or performing any cleaning or maintenance tasks.
5. Inspect the mains cable regularly for signs of damage. **DO NOT** use if it is damaged, and **ALWAYS** keep it away from the source of heat.
6. Check the heater for damage before use. **DO NOT** use if the heater tubes/elements are damaged or broken. Any damage should be properly repaired or the part replaced. If in doubt, **DO NOT** use. Consult your local CLARKE dealer.

## POSITIONING

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**WARNING: DO NOT USE THE HEATER NEAR FLAMMABLE MATERIAL, LIQUIDS, SOLIDS, GASSES OR COMPRESSED GAS CYLINDERS ETC.**

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1. This heater is designed for indoor use only.
2. **DO NOT** use this heater in small rooms when they are occupied by persons not capable of leaving the room on their own unless constant supervision is provided.
3. **DO NOT** use this heater in the immediate surrounds of a bath, a shower, a swimming pool or wet surfaces.
4. **NEVER** place the heater against or near any surface such as a wall, door, curtains, furniture or combustible material etc. Allow at least 2 metre clearance.
5. **DO NOT** place the heater immediately below any electrical outlet.
6. **DO NOT** place the heater on a raised surface or anywhere where it could topple over. **ALWAYS** use on a horizontal and stable surface.
7. **ALWAYS** ensure that the grille cannot be blocked or covered.
8. **DO NOT** operate fan heaters in explosive atmospheres such as in the presence of flammable liquids, gasses or dust such as in a paint spray booth or any explosive environment. Electric motors create sparks which may ignite dust or fumes.
9. This heater can be used by children aged 8 and above and persons with reduced physical, sensory and mental capabilities or lack of knowledge if they have been given instruction concerning the use of appliance in a safe way and understand the hazards.
10. Children less than 3 years should be kept away unless continuously supervised.
11. Children should **NOT** play with this appliance.

## OPERATION

1. **CAUTION:** Some parts of this product can become very hot and cause burns. Particular attention should be given where children, vulnerable people and animals are present.
2. The heater must only be used by people who have read these instructions and have been trained in its use.
3. **DO NOT** use if dropped.
4. **DO NOT** use if there is visible signs of damage.

5. **DO NOT** obstruct the air inlet and outlet sections of the heater.
6. **DO NOT** cover the heater with anything that could restrict the air flow.
7. **DO NOT** touch the heater casing or grille when first switched off, as these will be very hot and will take time to cool.
8. **DO NOT** get the heater wet or use in areas of high condensation.
9. **DO NOT** connect other appliances to the same mains socket as the heater.
10. **DO NOT** use this heater with a programmable timer used to switch it on automatically.
11. **DO NOT** leave the heater unattended.

## SAFETY SYMBOLS

These safety symbols appear on the heater.

	<p><b>Hot Surface, DO NOT Touch</b></p>	 <p><b>DO NOT COVER</b></p>	<p><b>DO NOT Cover</b></p>
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## SERVICE & REPAIRS

1. If necessary, have your heater repaired by a qualified person using identical replacement parts. This will ensure that the safety of the product is maintained.

Please keep these instructions in a safe place for future reference.

# ELECTRICAL CONNECTIONS



**WARNING: READ THESE ELECTRICAL SAFETY INSTRUCTIONS THOROUGHLY BEFORE CONNECTING THE PRODUCT TO THE POWER SUPPLY.**

These 230v heaters are provided with a 13 amp BS 1363 plug, fitted with a 13 amp fuse and MUST be connected to a standard, 230 Volt (50Hz) electrical supply, preferably through a suitably fused isolator switch.

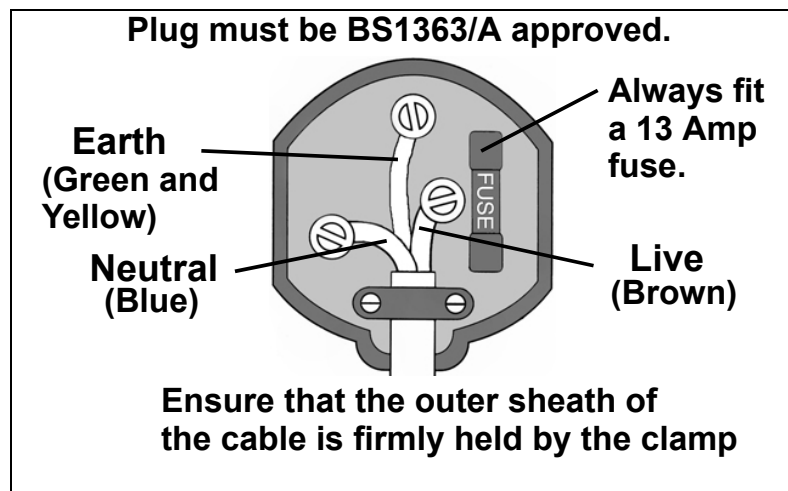
If the plug has to be changed because it is not suitable for your socket or because of damage, it must be removed and a replacement fitted, following the wiring instructions shown below. The old plug must be discarded safely as insertion into a power socket could cause an electrical hazard.



**WARNING: THE WIRES IN THE POWER CABLE OF THIS PRODUCT ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODE:  
BLUE = NEUTRAL      BROWN = LIVE      YELLOW AND GREEN = EARTH.**

The wires in the mains lead should be wired up in accordance with the following colour code:

- Connect the GREEN & YELLOW wire to the plug terminal marked with a letter E or
- Connect the BROWN wire to the plug terminal marked a letter "L".
- Connect the BLUE wire to the plug terminal marked a letter "N".



The fuse in the plug must be replaced with one of the same rating and this replacement must be ASTA approved to BS1362.

We strongly recommend that this machine is connected to the mains supply via a Residual Current Device (RCD).

If in any doubt, consult a qualified electrician. DO NOT attempt any electrical repairs yourself.

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# UNPACKING AND ASSEMBLY

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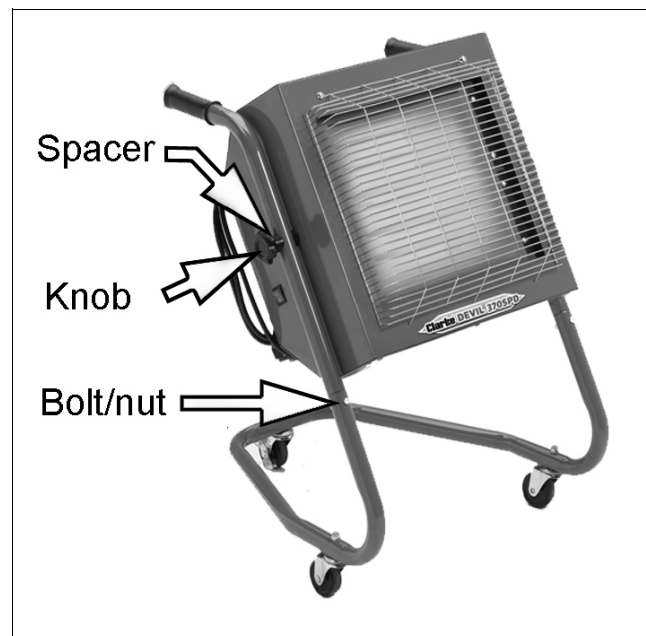
## UNPACKING

When unpacking, please check contents against the following list and advise your dealer immediately if any parts are missing.

- 1 x Heater
- 1 x Lower base frame
- 2 x Handles
- 3 x Castors (one with brake)
- 1 x Fixings pack including knobs and spacers
- 1 x Remote control unit

## ASSEMBLY

1. Bolt the handles to the lower frame using the two loose bolts & locknuts noting the orientation of the handles.
2. Lay the heater face down and attach the complete frame to the heater body using the securing knobs and the spacers located either side of the frame tubing.





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# OPERATION

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**WARNING: FOR SAFE OPERATION OF THIS HEATER IT IS ESSENTIAL TO READ THESE INSTRUCTIONS BEFORE USE.**

**WARNING: PLEASE NOTE THAT THE HEATING ELEMENTS OF THIS PRODUCT DO NOT GLOW WHILST IN OPERATION. ANY PICTURES SHOWING THIS IN ADVERTISING MATERIAL ARE FOR ILLUSTRATION ONLY.**

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## USING THE REMOTE CONTROL

All operations must be done using the remote control.

- 2 x AAA batteries are required and are installed as shown by the diagram found inside the control unit.
- The remote control must be directed at the heater display panel. It has a range of approx 2.5 metres and must be aimed at the correct angle.
- The function of each button on remote control is the same as operation panel.



## MANUAL OPERATION

1. Stand the heater on a firm, level surface and following all safety precautions, connect to a suitable power supply.
  - The heater is equipped with an anti-tilt switch that automatically cuts the power off should the heater tip over. If this happens, stand the heater upright and it will immediately re-set.
2. Switch on the power at the primary switch on the side of the heater.
  - The heater will be in Standby with the display showing PO.



3. Press  to turn on the upper heating lamp and the screen will show P1.




4. Press   to select the mode from P1-P6, referring to the different temperature settings.


P1	Only the upper element is working
P2	24°
P3	26°
P4	28°
P5	30°
P6	Both elements are working

- During mode P2-P5 the upper element is working all the time and the lower element will be turned off automatically according to the set temperature.


5. The user can change from mode

P1 and P6 by pressing . The screen will show a cascade effect when in mode P6.





6. To power off the unit, press  again, the heater stops working, and returns to standby with the screen showing 'PO'.
7. Then switch off the main switch and unplug the heater.

## SETTING THE SHUTDOWN TIMER

1. Press  to set the shutdown timer. The time on the screen flickers with initial status 00:00.



2. Press  and  to set the time to turn the heater off.
  - It increases/decreases 1 hour per press.

3. Press  when you finish setting and the heater will be in the countdown mode.



- It will shut down 2 hours later.
4. When the time is up, the heater turns off automatically and enters the standby state P0.

## FUNCTION FOR DETECTING OPENING WINDOWS

1. When the ambient temperature drops over 5°C within 10 minutes, the heater will turn off automatically and enter a standby state with three alarm beeps.

- Users need to turn on the heater manually by pressing- 

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## CLEANING & MAINTENANCE

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If the heater has been used, always allow it to cool down for at least 15 minutes and disconnect from the mains supply before performing any maintenance tasks.

### FITTING/ REPLACING LAMPS

Before attempting to fit/replace halogen tubes, ensure the heater is switched off and disconnected from the electrical supply.

**NEVER** handle the heater tubes with bare hands. **ALWAYS** handle using either a soft clean glove or a piece of soft clean cloth wrapped around the tube.

1. Remove the two screws and remove the guard.

2. To remove the tube, grasp it and gently but firmly push it to one end of the heater. The tube holders are spring loaded and will allow the tube sufficient movement to clear the opposite holder.
3. Remove the tube and dispose of, according to local regulations.
4. Fit the new halogen tubes in reverse order.
5. Replace the guard using the screws removed earlier.

The heater is now ready for use.

## PERIODICALLY

1. If there is any substantial build up of dirt, wipe the heater body with a damp cloth. Take care that no moisture enters the heater. Take care NOT to touch the tubes with your fingers.
2. Inspect the power cable for damage. Undue heat will cause the cable to stiffen and crack. If this is found, have the cable replaced. Check cable routing and ensure it is well away from the heat source.
3. Ensure heating tubes are clear of dust (use compressed air to clean if possible. (ALWAYS wear a dust mask if performing this operation)
4. Refer to your CLARKE dealer if internal repairs are required.
5. When storing the heater, allow it to cool down, then place it in its packing box for storage in a dry, ventilated place.

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## ENVIRONMENTAL RECYCLING POLICY

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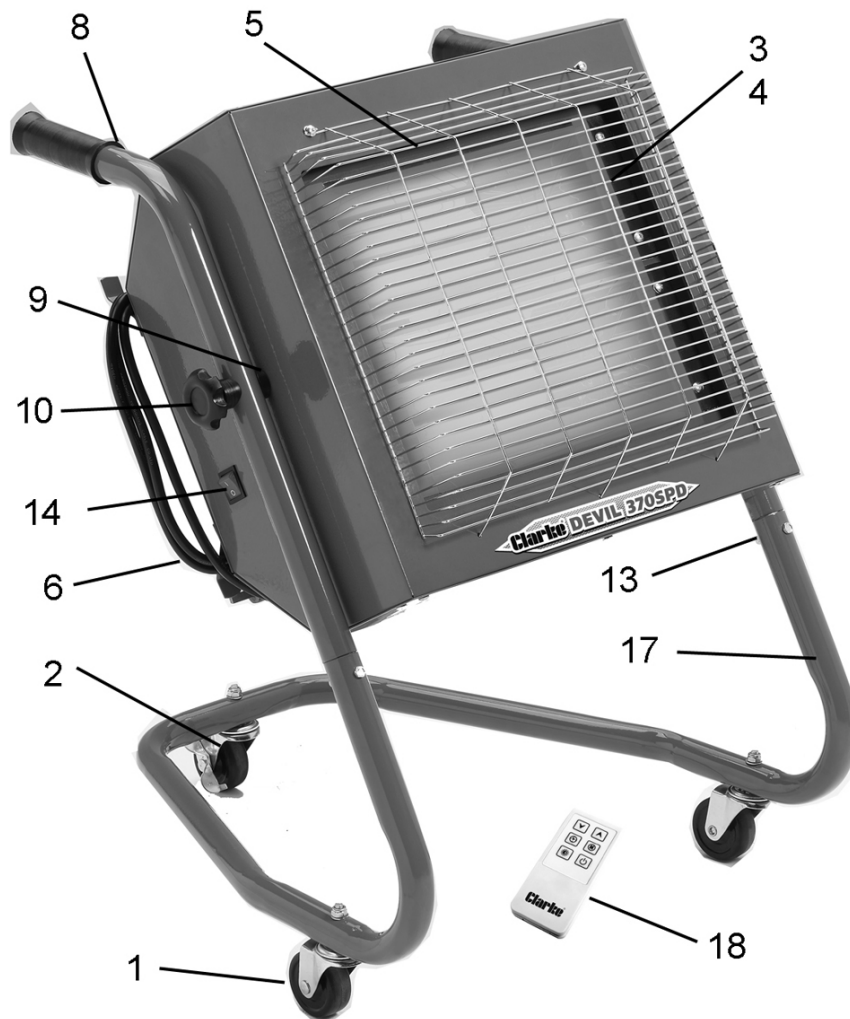
Through purchase of this product, the customer is taking on the obligation to deal with the WEEE in accordance with the WEEE regulations in relation to the treatment, recycling & recovery and environmentally sound disposal of the WEEE.

In effect, this means that this product must not be discarded with general household waste. It must be discarded according to the laws governing Waste Electrical and Electronic Equipment (WEEE) at a recognised disposal facility.

## FAULT FINDING

SYMPTOM	PROBLEM	SOLUTION
Heater does not operate, although plugged in and switched on.	Plug is loose/bad connection.	Remove the plug & check the connection of the plug and socket.
	Fuse blown.	Replace if necessary and investigate the cause. If fuse blows repeatedly, consult your CLARKE dealer.
	No power at socket outlet.	Insert plug into a suitable socket.
	Tilt safety switch is disabling unit.	Ensure unit is upright. If switch does not re-set, consult your CLARKE dealer.
Heater tube is glowing hot.	Input voltage incorrect.	Ensure power supply matches the rating on the label.
	Air supply obstructed.	Ensure the heater is kept away from any objects or materials which could obstruct the flow of air.
Heater does not respond to remote controller.	Batteries defective.	Replace batteries.
	Controller is out of range or not pointing at the receiver.	Move closer or try different angles of pointing the controller at the heater.
	Controller damaged internally	Consult your CLARKE dealer.

# COMPONENT PARTS



No	Description
1	Castor (standard)
2	Castor with brake
3	Ceramic end cap
4	Quartz halogen tube
5	Wire guard
6	Power cable
7	Rear Handle (not shown)
8	Side frame/handle
9	Plastic spacers

No	Description
10	Securing knob
11	Control panel assembly (not shown)
12	PCB control unit (not shown)
13	Bolt/locknut
14	ON/OFF switch (power)
15	ON/OFF switches (lamps)
16	Tilt safety switch (not shown)
17	Lower frame
18	Remote control unit

# DECLARATION OF CONFORMITY



Hennell Street, Epping, Essex CM16 4JG

## DECLARATION OF CONFORMITY

This is an important document and should be retained.

We hereby declare that this product(s) complies with the following statutory requirement(s):

- Electromagnetic Compatibility Regulations 2016*
- Electrical Equipment (Safety) Regulations 2016*
- The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012*
- The Eco-design for Energy Related Products and Energy Information (Amendment) Regulation 2019*

The following standards have been applied to the product(s):

- EN IEC 55014-1:2021, EN IEC 55014-2:2021, EN IEC 61000-3-2:2019, EN 61000-3-3:2013+A1:2019, EN 60335-2-30:2009+A11:2012+A1:2020, EN 62233:2008*
- EN 60335-1:2012+A11:2014+A13:2017+A1:2019+A14:2019+A2:2019, IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-6:2015, IEC 62321-7-1:2015, IEC 62321-7-2:2017, IEC 62321-8:2017*

The technical documentation required to demonstrate that the product(s) meet(s) the requirement(s) of the aforementioned legislation has been compiled and is available for inspection by the relevant enforcement authorities.

The UKCA mark was first applied in: 2022

**Product Description:** Electric Quartz Heater  
**Model number(s):** DEVIL 370SPD (230V) DEVIL 371SPD (110V)  
**Serial / batch Number:** N/A  
**Date of Issue:** 20/07/2022

Signed:

J.A. Clarke  
Director



Fitzwilliam Hall, Fitzwilliam Place, Dublin 2

## DECLARATION OF CONFORMITY

This is an important document and should be retained.

We hereby declare that this product(s) complies with the following directive(s):

- 2014/30/EU Electromagnetic Compatibility Directive*
- 2014/35/EU Low Voltage Equipment Directive*
- 2011/65/EU Restriction of the Use of Hazardous Substances in Electrical and Electronic Equipment Directive*
- 2009/125/EC Eco-Design Directive (EU 2015/1189)*

The following standards have been applied to the product(s):

- EN IEC 55014-1:2021, EN IEC 55014-2:2021, EN IEC 61000-3-2:2019, EN 61000-3-3:2013+A1:2019, EN 60335-2-30:2009+A11:2012+A1:2020, EN 62233:2008*
- EN 60335-1:2012+A11:2014+A13:2017+A1:2019+A14:2019+A2:2019, IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-6:2015, IEC 62321-7-1:2015, IEC 62321-7-2:2017, IEC 62321-8:2017*

The technical documentation required to demonstrate that the product(s) meet(s) the requirement(s) of the aforementioned directive(s) has been compiled and is available for inspection by the relevant enforcement authorities.

The CE mark was first applied in: 2022

**Product Description:** Electric Quartz Heater  
**Model number(s):** DEVIL 370SPD (230V) DEVIL 371SPD (110V)  
**Serial / batch Number:** N/A  
**Date of Issue:** 20/07/2022

Signed:

J.A. Clarke  
Director

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**Parts Enquiries**  
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**Servicing & Technical Enquiries**  
[Service@clarkeinternational.com](mailto:Service@clarkeinternational.com)

SALES: UK 01992 565333 or Export 00 44 (0)1992 565335

**Clarke® INTERNATIONAL** Hemnall Street, Epping, Essex CM16 4LG  
[www.clarkeinternational.com](http://www.clarkeinternational.com)