

Clarke®

CONTRACTOR®



DEVIL QUARTZ HALOGEN HEATER

MODEL NO: DEVIL371PD

PART NO: 6920258

OPERATING & MAINTENANCE INSTRUCTIONS

UK
CA | CE



ORIGINAL INSTRUCTIONS

DL0124 Rev 2

INTRODUCTION

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.

SPECIFICATIONS

Model Number	Devil 371PD
Part Number	6920258
Weight	16.2 kg
Dimensions (LxWxH)	560 x 490 x 870 mm
Rated Input Wattage	2.4 kW
Rated Input Amperage	21.8 A
Supply Voltage	110v/50 Hz
Ingress Protection Class	IP20
Max Heat Output	2.4 kw (2 x 1.2 kW)

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

Item	Symbol	Value	Unit
Heat output			
Measured seasonal space heating energy efficiency			35%
Nominal heat output	P_{nom}	2.4	kW
Minimum heat output (indicative)	P_{min}	1.2	kW
Maximum continuous heat output	P_{max}	2.4	kW
Auxiliary electricity consumption			
At nominal heat output	el_{max}	n/a	kW
At minimum heat output	el_{min}	n/a	kW
In standby mode	el_{SB}	0.001	kW
Type of heat input for electric storage local heaters only			
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
Type of heat output/room temperature control (select one)			
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
Other control options (multiple selections possible)			
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

SAFETY RULES

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.

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



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

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>Hot Surface, DO NOT Touch</p>	 <p>DO NOT COVER</p>	<p>DO NOT Cover</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

DEVIL 371PD (110V) UNIT

The 110V model is fitted with a 32 Amp, three pin industrial plug to EN 60309 and **MUST** be connected to a 110 volt, 1 phase 50 Hz supply through a suitably fused isolator switch.

On no account must a 230V, 13 amp (BS1363) plug be used.

NOTE: If a portable 110V transformer is used, make sure it has a rated capacity sufficient to take the load of the heater.

If the heater is hard wired into the electrical system, all work must be carried out in accordance with IEE regulations.

If the plug has to be changed due to damage, a replacement should be fitted, following the wiring instructions shown below. The old plug must be disposed of as insertion into a 110v socket could cause an electrical hazard.



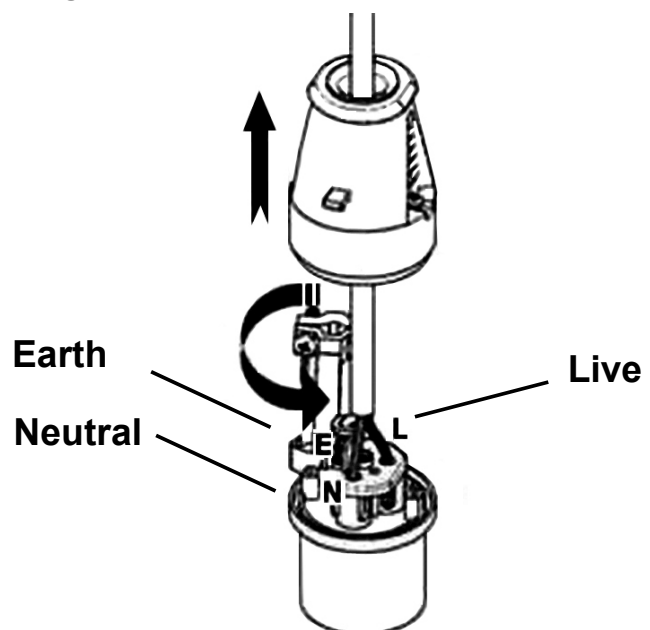
**WARNING: THE WIRES IN THE POWER CABLE OF THIS PRODUCT ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODE:
BLUE = NEUTRAL BROWN = LIVE YELLOW = EARTH**

If the colours of the wires in the power cable of this product do not correspond with the markings on the terminals of your plug, proceed as follows.

- The **Blue** wire must be connected to the terminal which is marked **N** or **Neutral**.
- The **Brown** wire must be connected to the terminal which is marked **L** or **Live**.
- The **Yellow** wire must be connected to the terminal which is marked **E** or **Earth**.

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

Plug must be BS60309 approved.



UNPACKING AND ASSEMBLY

UNPACKING

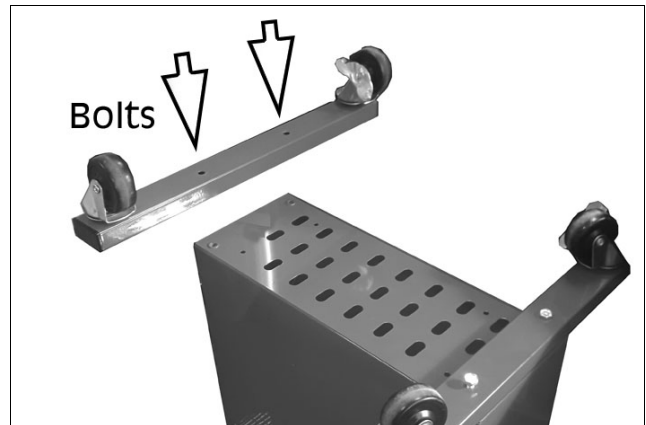
Before assembling, please check contents against the following list and advise your dealer immediately if any parts are missing.

- 1 x Heater
- 2 x Support Frames with castors (2 with brakes)
- 1 x Handle
- 1 x Fixings pack
- 1 X Remote control unit

ASSEMBLY

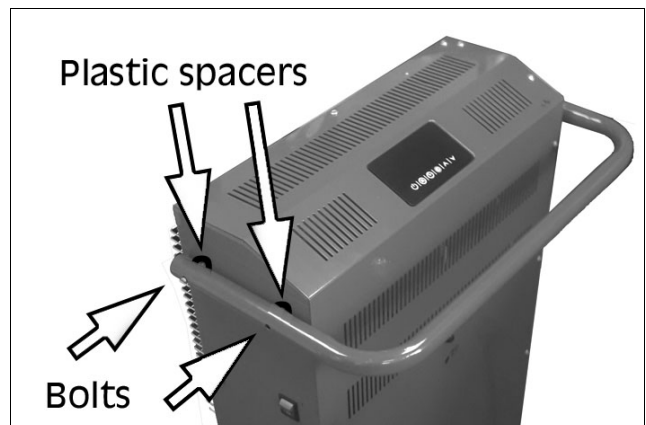
1. Attach the supporting frames to the heater body using 14 mm securing bolts supplied.

- The braked castors should be at the rear of the heater



2. Attach the handle to each side of the heater body using the 10 mm bolts and plastic spacers.

- The handle should be facing away from the rear of the heater.



OPERATION



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

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.
 - 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 enters a standby state with three alarm beeps.

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

CLEANING & MAINTENANCE

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

FITTING/ REPLACING HALOGEN TUBES

Before attempting to fit/replace halogen lamps, ensure the heater is switched off and isolated from the electrical supply by removing the plug from the socket.

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 lamp.

1. Loosen and remove the two pozidrive screws securing the wire guard, remove the guard and store removed parts safely.
2. To remove the tube, grasp 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 it, according to local regulations.
4. Fit new halogen tubes in reverse order.
5. Replace the guard using the screws removed earlier.

The heater is now ready for use again.

PERIODICALLY

1. If there is any serious build up of dirt, wipe the exterior thoroughly 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 repair is 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.

ENVIRONMENTAL RECYCLING POLICY



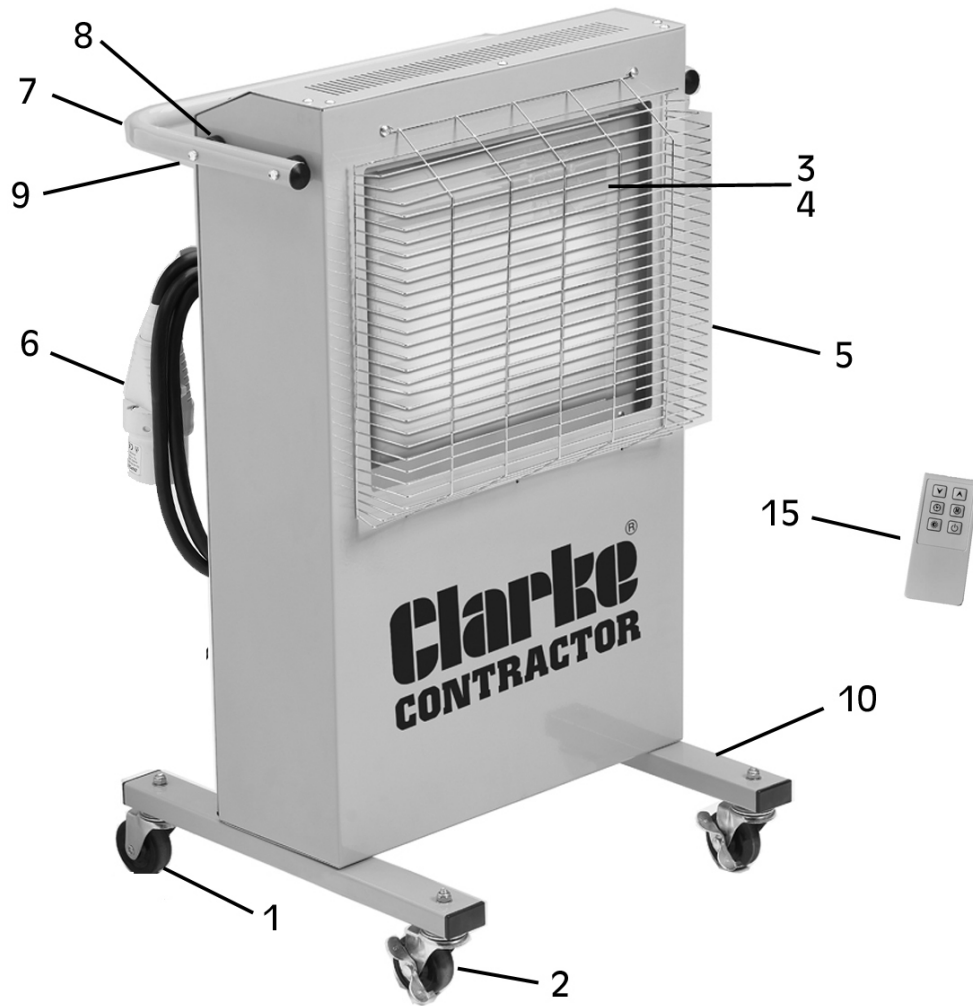
Through purchase of this product, the customer is taking on the obligation to deal with the WEEE in accordance with the WEEE regulations in relation to the treatment, recycling & recovery and environmentally sound disposal of the WEEE.

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 the 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 flow partly blocked.	Ensure the heater is kept away from any objects or materials which could block the circulation of air.
Heater does not respond to remote controller.	Batteries defective.	Replace batteries.
	Controller is out of range or not pointing at the display panel.	Move closer or try different angles of pointing the controller at the heater.
	Control unit damaged or defective	Consult your CLARKE dealer

COMPONENT PARTS



No	Description
1	Castor (standard)
2	Castor with brake
3	Ceramic end cap
4	Halogen tube
5	Wire guard
6	Power cable
7	Handle
8	Plastic spacers

No	Description
9	Bolt
10	Support frame
11	Control Panel Assembly
12	PCB control unit (not shown)
13	Tilt safety switch (not shown)
14	ON/OFF switch (not shown)
15	Remote control unit

DECLARATION OF CONFORMITY



Hemmel Street, Epping, Essex CM16 4UG

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 370PD (230V) DEVIL 371PD (110V)

Serial / batch Number: N/A

Date of Issue: 15/07/2022

Signed:

J.A. Clarke
Director

DEVIL 371PD UKCA Clarke DOC 071522

Page 1 of 1



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 2015/1188)*

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 370PD (230V) DEVIL 371PD (110V)

Serial / batch Number: N/A

Date of Issue: 15/07/2022

Signed:

J.A. Clarke
Director

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Page 1 of 1

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