

Clarke®



**Only suitable for well insulated areas and not designed
to be the primary heat source**

2.8KW DEVIL 2850 HEATER

MODEL NO: DEVIL 2850

PART NO: 6925801

OPERATION & MAINTENANCE INSTRUCTIONS



ORIGINAL INSTRUCTIONS

DL0525 - Rev 4

INTRODUCTION

Thank you for purchasing this CLARKE product.

Before attempting to use this product, read this manual carefully. In doing so you guarantee 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 as proof of purchase.

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

Operating Voltage / Frequency	230V / 50Hz
Operating Temperature Range	-15 to +25°C
Input Wattage/Ampage: Fan only Fan + Heat 1 Fan + Heat 2	0.025 kW/0.1A 1.4 kW/6.08A 2.8 kW/12.17A
Heat output	2.8 kW
Max Air Output	415 m ³ /h
Safety Devices	Thermal cut-out Tip-over switch
Ingress Protection	IP20
Depth x Width x Height	145 x 235 x 390 mm
Weight	2.5 kg
Duty cycle	S1 (continuous)
Sound Power Level	45 dB LWA

THE FOLLOWING TABLE ADDRESSES THE INFORMATION REQUIREMENTS OF REG.2024/ 1103

Item	Symbol	Value	Unit
Heat output			
Nominal heat output	P_{nom}	2.800	kW
Minimum heat output (indicative)	P_{min}	1.400	kW
Maximum continuous heat output	$P_{max, c}$	2.800	kW
Auxiliary electricity consumption			
In off mode	P_o	0.000	W
In standby mode	P_{sm}	0.000	W
In idle mode	P_{idle}	0.000	W
In network standby	P_{nsm}	0.000	W
Seasonal space heating energy efficiency in active mode	$\eta_{s, on}$	85	%
Standby mode with display information or status	-	No	-
Type of heat output/room temperature control (select one)			
Single stage heat output, no temperature control			No
Two or more manual stages, no temperature control			No
With mechanical thermostat temp control			Yes
With electronic temperature control			No
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			No
Room temperature control with distance control option			No
Room temperature control with adaptive start control			No
Room temperature control with working time limitation			No
Room temperature control with black bulb sensor			No
Room temperature control with self-learning functionality			No
Room temperature control with control accuracy			No

SAFETY RULES

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



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

SAFE WORKING PRACTICES

The heater is designed to heat enclosed areas such as workshops and other industrial areas but should not be used in confined spaces. Do not use the heater for any other function. It is not suitable for drying clothes or laundry.

This heater can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

- **DO NOT** operate the heater when you are tired or under the influence of alcohol, drugs or intoxicating medication.
- **DO NOT** stand on the heater.
- **DO NOT** use the heater with wet hands or in wet conditions.
- Turn the heater off when not in use and keep it in a safe, dry location.

ELECTRICAL SAFETY



WARNING: THIS HEATER MUST BE EARTHED.

- Regularly inspect the power cable / plug for signs of damage/looseness. **DO NOT** use the heater if the power cable is damaged.
- Minimise the risk of electric shock by installing a RCCB (Residual Current Circuit Breaker) and a suitable isolator into the main distribution board.
- Make sure that the voltage on the rating label is the same as the voltage of the power supply. If in doubt, consult a qualified electrician.
- **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.
- **DO NOT** use extension cables with this heater.

POSITIONING



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

- This heater is designed for indoor use only.
- **DO NOT** place the heater close to any water-filled area or wet surface.
- **DO NOT** place the heater against any surface such as a wall, door or furniture etc.
- **DO NOT** place the heater immediately below any electrical outlet.
- **NEVER** place the heater near combustible materials. To reduce the risk of fire, keep textiles, curtains, or any other flammable material a minimum distance of 2m from the air outlet.
- **DO NOT** place the heater on a raised surface or anywhere where it could topple over.
- **ALWAYS** ensure that the grille cannot be blocked.
- **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.
- **DO NOT** use this heater in the immediate surroundings of a bath, a shower or a swimming pool.
- Use this heater on a horizontal and stable surface or fix it to the wall, as applicable.

OPERATION

- The heater must only be used by people who have read these instructions and have been trained in its use.
- Children of less than 3 years should be kept away unless continuously supervised.
- Children aged 3 years and less than 8 years shall only switch on/off the heater provided that it has been placed or installed in its intended normal operating position and they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children

aged from 3 years and less than 8 years shall not plug in, regulate and clean the heater or perform user maintenance.







- **DO NOT** obstruct the air inlet and outlet sections of the heater.
- **DO NOT** cover the heater with anything that could restrict the air flow.
- **DO NOT** touch the heater casing or grille when first switched off, as these will be very hot and will take time to cool.
- **DO NOT** get the heater wet or use in areas of high condensation.
- **DO NOT** allow the power lead to touch hot surfaces.
- **DO NOT** connect other appliances to the same mains socket as the heater.
- **ONLY** use the heater in a level position.
- **DO NOT** use this heater with a programmable timer used to switch it on automatically.
- **DO NOT** leave the heater unattended.
- **ALWAYS** switch the heater off at night.
- **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.
- **DO NOT** use this heater if it has been dropped.
- **DO NOT** use if there are visible signs of damage to the heater.

MAINTENANCE

- Check that the heater is in good working order. Take immediate action to have any damaged parts repaired or replaced by the CLARKE service department.
- **DO NOT** allow the heating elements to become covered with dust which could become a fire hazard. If used in a dusty workplace it should be cleaned as described under Maintenance on page 10.
- Only recommended parts should be used. Unapproved parts may be dangerous and will invalidate the warranty.
- Have your heater repaired by a qualified person using identical replacement parts. This will ensure that the safety of the heater is maintained.

SAFETY SYMBOLS

These safety symbols appear on the heater.

	Hot Surface Do not touch	 DO NOT COVER	Do not cover
	WEEE Directive for the disposal of Waste Electrical & Electronic Equipment		Read instruction manual before use
	Suitable for indoor use only		Protect from splashing

ENVIRONMENTAL RECYCLING POLICY



By purchasing this product, the customer is taking on the obligation to deal with its safe disposal in accordance with the Waste Electrical and Electronic Equipment (WEEE).



This product must not be disposed of with general household waste but be disposed of according to the laws governing Waste Electrical and Electronic Equipment (WEEE) at a recognised disposal facility.

This product contains valuable raw materials. Metal products should be taken to your local civic amenity site for recycling.

ELECTRICAL CONNECTIONS



WARNING: READ THESE ELECTRICAL SAFETY INSTRUCTIONS THOROUGHLY BEFORE CONNECTING THE HEATER TO THE MAINS SUPPLY.

Connect the mains lead to a standard, 230 Volt (50Hz) electrical supply through an approved 13 amp BS 1363 plug, or 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**

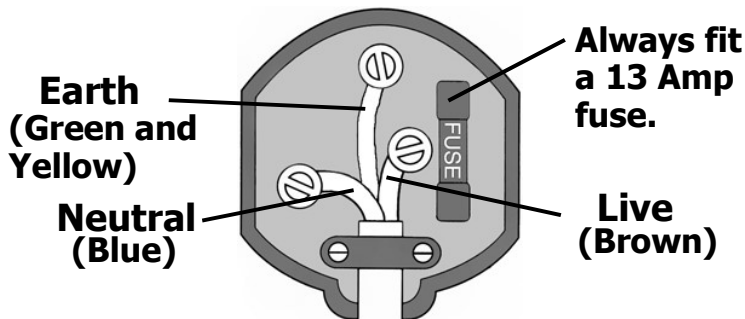
If the colours of the wires in the power cable do not agree with the markings on the plug:

- The BLUE wire must be connected to the terminal which is marked N or coloured black.
- The BROWN wire must be connected to the terminal which is marked L or coloured red.
- The YELLOW AND GREEN wire must be

connected to the terminal which is marked E or  or coloured green.

We strongly recommend that this machine is connected to the mains supply through a Residual Current Circuit Breaker (RCCB). If you are not sure, consult a qualified electrician.

Plug must be BS1363/A approved.



Ensure that the outer sheath of the cable is firmly held by the clamp

OPERATION






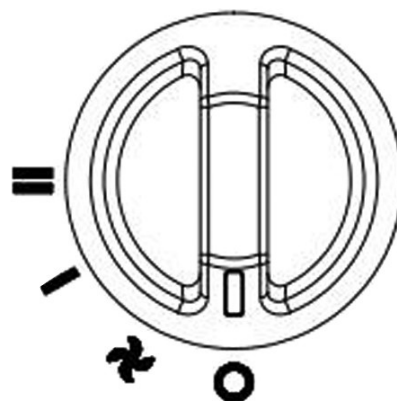
WARNING: DO NOT USE THIS HEATER IN SMALL ROOMS IF OCCUPIED BY PERSONS NOT CAPABLE OF LEAVING THE ROOM ON THEIR OWN, UNLESS CONSTANT SUPERVISION IS PROVIDED.



CAUTION: SOME PARTS OF THIS PRODUCT CAN BECOME VERY HOT AND CAUSE BURNS. PARTICULAR ATTENTION HAS TO BE GIVEN WHERE CHILDREN AND VULNERABLE PEOPLE ARE PRESENT.

1. Put the heater in a level position on a firm, flat surface and at a safe distance from flammable materials. Keep a minimum of 2m clearance all round.
2. Connect the heater to a suitable power supply.
3. Set the selector switch to one of the 3 settings.

0	Off
	Fan only
	Fan + Heat Setting 1
	Fan + Heat Setting 2



4. Set the thermostat control to the maximum setting (fully clockwise) and let the heater operate on full power.
5. The heater will switch on when the selector is set to one of the power settings.
6. Once the room reaches the required temperature, the heating element will stop working and will come back on automatically to maintain a constant temperature in the room.

7. Turn the thermostat control slowly counter-clockwise until the thermostat clicks off to set the running temperature. Leave the control in this position.
8. When not in use, disconnect the heater from the mains supply.

SAFETY SYSTEMS

The Devil 2850 has a thermal cut out to prevent the unit from overheating.

If the temperature of the front grille gets too high the thermal cut-out will turn off the heating elements. When the fan has cooled the unit sufficiently, normal operation will resume.

In the event of the heater falling over, the tip-over switch will cut off the power until it is set upright again.




CARE AND MAINTENANCE




1. Clean the heater with a soft damp cloth, Do not use solvents or abrasives.
2. No other maintenance is required, should you discover any problem with the heater, return it to the CLARKE service department for repair. Store the heater in a dry, ventilated place.

FAULT FINDING

Problem	Possible Cause	Remedy
Heater does not operate although plugged in with the switch and thermostat switched on.	Plug is loose/bad connection.	Check the connection of the plug and socket.
	Fuse blown or circuit breaker has tripped.	Replace if necessary and investigate cause. If fuse blows repeatedly, consult your CLARKE dealer.
	No power at socket outlet	Insert the plug in a functioning socket.
Heating element glowing hot.	Input voltage too high.	Use a power supply in accordance with the rating on the label.
	Air inlet grille is blocked	Ensure the heater is kept away from any objects which could cover the air inlet or be drawn into it.
Heater has failed to heat up so only the air fan has operated.	Thermostat has tripped.	Turn the thermostat and listen. If there is no CLICK and the thermostat is not damaged, the heater will automatically switch ON when it has cooled down.
Abnormal noise	Heater is not level.	Stand heater on a level surface

DECLARATIONS OF CONFORMITY

	
Hermell Street, Epping, Essex, CM16 4LG	
DECLARATION OF CONFORMITY	
This is an important document and should be retained.	
We hereby declare that this product(s) complies with the following legislation:	
2009/125/EC	Ecodesign Directive
2014/30/EU	Electromagnetic Compatibility Directive
2014/35/EU	Low Voltage Directive
2011/65/EU	Restriction of Hazardous Substances (RoHS) Directive
The following standards have been applied to the product(s):	
EN 60335-2-30:2009/A13:2022, EN 61000-3-3:2013/A2:2021, EN 62321-3-1:2014, EN 62321-5:2014, EN 60335-1:2012/A16:2023, EN 62321-4:2014/A1:2017, EN IEC 55014-1:2021, EN 62321-7-1:2015, EN IEC 62321-2:2021, EN IEC 55014-2:2021, EN 62321-1:2013, EN 62321-6:2015, EN 62233:2008, EN 60675:1995+A1:1998+A2:2018+A11:2019, EN IEC 61000-3-2:2019/A2:2024, EN 62321-8:2017, EN 62321-7-2:2017, EN 50564:2011	
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: 2020	
Product Description:	Electric Space Heater
Model Number(s):	DEVIL 2850
Serial/Batch Number:	Refer to product/packaging label
Date of Issue:	28/04/2025
Signed:	
	J.A. Clarke Director
DEVIL 2850 UKCA Clarke DOC 042825	
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Fitzwilliam Hall, Fitzwilliam Place, Dublin 2	
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A SELECTION FROM THE VAST RANGE OF

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