

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

GC0221 - REV 1

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:	
Fan only	0.025 kW
Fan + Heat 1	1.4 kW
Fan + Heat 2	2.8 kW
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.2015/1188**

Item	Symbol	Value	Unit
Heat output			
Measured seasonal space heating energy efficiency			40%
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
Auxiliary electricity consumption			
At nominal heat output	e_{lmax}	N/A	kW
At minimum heat output	e_{lmin}	N/A	kW
In standby mode	e_{lSB}	N/A	kW

Item	Unit
Type of heat input for electric storage local heaters only	
Manual heat charge control with integrated thermostat	n/a
Manual heat charge control with room and/or outdoor temperature feedback	n/a
Electronic heat charge control with room and/or outdoor temperature feedback	n/a
Fan assisted output	n/a
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

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

- 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.

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.

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, GASSES 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. Allow at least 2 metre clearance.
- 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.

OPERATION







- The heater must only be used by people who have read these instructions and have been trained in its use.
- 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.

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.

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

ELECTRICAL CONNECTIONS



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

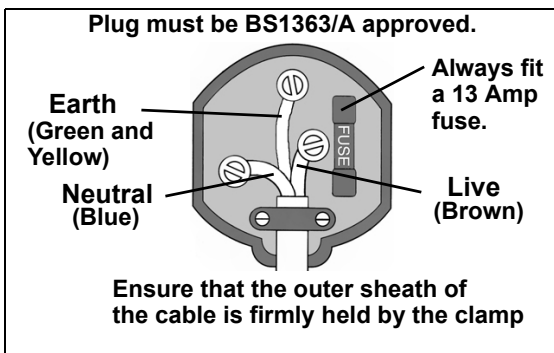
Connect the mains lead to a standard, 230 Volt (50Hz) electrical supply through an approved 13 amp BS 1363 plug, or a suitably fused isolator switch. If the plug has to be changed because it is not suitable for your socket, or because of damage, it must be removed and a replacement fitted, following 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.

OPERATION






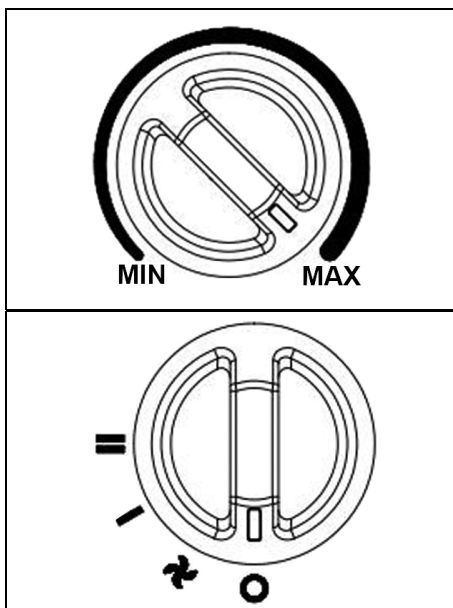
WARNING: DO NOT USE THIS HEATER IN SMALL ROOMS IF OCCUPIED BY PERSONS NOT CAPABLE OF LEAVING THE ROOM ON THEIR OWN, UNLESS CONSTANT SUPERVISION IS PROVIDED.



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 cutout 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.

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

MAINTENANCE



WARNING: ALWAYS DISCONNECT FROM THE POWER SUPPLY AND ALLOW THE HEATER IT TO COOL DOWN BEFORE PERFORMING ANY MAINTENANCE TASKS.

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.
3. Store the heater in a dry, ventilated place.

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.

DECLARATIONS OF CONFORMITY





Hemnal 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 directive(s):

- 2014/530/EU Electromagnetic Compatibility Directive,
- 2014/35/EU Low Voltage Equipment Directive,
- 2011/65/EU Restriction of Hazardous Substances, (amended by 2015/863),
- 2009/125/EC Eco- Design Directive (EU 2015/1188).


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

- EN 60335-1:2012+A11: 2014+A13:2017, EN 60335-2-30:2009+A11:2012, EN 62233:2008,
- EN 61000-3-2:2014, EN 61000-3-3:2013, EN 55014-1:2017, EN 55014-2:2015.

The technical documentation required to demonstrate that the product(s) meet(s) the requirements 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: 2020


Product Description:	2.8 kW Fan Heater
Model number(s):	Dev12850
Serial / batch Number:	6625801
Date of Issue:	29/09/2020


Signed: 

J.A. Clarke
Director

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Hemnal 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 UK legislation:

- 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 Code of Practice for Energy-Related Products and Energy Information (Amendment) (EU Exit) Regulations 2019


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

- EN 60335-1:2012+A11: 2014+A13:2017, EN 60335-2-30:2009+A11:2012, EN 62233:2008,
- EN 61000-3-2:2014, EN 61000-3-3:2013, EN 55014-1:2017, EN 55014-2:2015.

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

This product was placed onto the market: 2020

Product Description:	2.8 kW Fan Heater
Model number(s):	Dev1 2850
Serial / batch Number:	n/a
Date of Issue:	15/02/2021

Signed: 

J.A. Clarke
Director

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