

# CLARKE®



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

## 2.8KW ELECTRIC HEATER (110V)

MODEL NO: DEVIL 3003B

PART NO: 6925126

### OPERATION & MAINTENANCE INSTRUCTIONS



ORIGINAL INSTRUCTIONS

DL1123 Rev 1

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## **INTRODUCTION**

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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

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## **GUARANTEE**

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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.

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## **FUNCTION AND OPERATING PARAMETERS**

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This is a forced air heater. It's intended use is for drying and the warming of commercial/industrial buildings and construction sites and areas where adequate ventilation is provided.

- It must be operated as prescribed in the operating manual.
- It is not intended to be used for domestic use or for the heating of habitable areas.
- It is not intended to be used to reach and maintain a certain level of human thermal comfort within an enclosed space in which the heater is situated.
- It is not intended to be used in enclosed areas with restricted ventilation.
- It is not intended for warming animals or live stock.



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## SAFETY RULES

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Make sure that you read, understand and comply with the following guidance. These safety symbols should appear on the heater.

	<b>Hot Surface, Do Not Touch</b>		<b>Read the manual</b>	 <b>DO NOT COVER</b>	<b>Do Not Cover</b>
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### GENERAL

- **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 if dropped. **DO NOT** use if there is visible signs of damage.
- **DO NOT** use the heater with wet hands or when there is water on the power cable.
- Turn the heater off when not in use and keep it in a safe, dry, childproof location.
- 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.
- This heat 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 the appliance in a safe way and understand the hazards.
- Children of less than 3 years should be kept away unless continuously supervised.

### ELECTRICAL SAFETY



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**WARNING: THIS HEATER MUST BE EARTHED AND IS ONLY FOR USE WITH A 110VOLT SUPPLY.**

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- Regularly inspect the power cable / plugs for 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. **DO NOT** 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** 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** place the heater close to a bath, wash basin, shower, swimming pool or any other 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 textiles, curtains or combustible materials etc. Allow 2 metres clearance all round this heater.
- **DO NOT** place the heater on a raised surface or anywhere it could topple over. **ONLY** use this heater on a horizontal and stable surface.
- Take care to ensure that the grille cannot be blocked.
- **DO NOT** operate fan heater 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.
- **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.
- **DO NOT** use this heater with a programmable timer used to switch it on automatically.
- **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.

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## SPECIFICATIONS

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Operating Voltage / Frequency	110V / 50Hz
Maximum output	2.8kW (2 x elements 1.4kW)
Temperature Setting Range	0 to +40°C
Input Wattage:	
Fan only	0.04 kW
Heat Setting 1	1.4 kW
Heat Setting 2	2.8 kW
Required Power	25.5A
Max Air Output	570 m <sup>3</sup> /h
Safety Devices	Thermal cut-out
Ingress Protection	IPX0
Duty cycle	S1-continuous
Depth x Width x Height	255 x 255 x 390 mm
Weight	4.6 kg

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# ELECTRICAL CONNECTIONS

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


**This heater MUST be connected to a 110 Volt, 1 phase 50Hz supply through a suitably fused isolator switch. ON NO ACCOUNT MUST A 230V, 13AMP (BS1363) PLUG BE USED.**

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

**We strongly recommend that this machine is connected to the mains supply through a RCCB (Residual Current Circuit Breaker).**

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

In the event that the heater is hard wired into the electrical system, it must be carried out in accordance with IEE regulations.

Any power supply provided by the user must be comparable with the power cable supplied with the heater, and any additional cables should not be allowed to cause a trip hazard.

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

# OPERATION






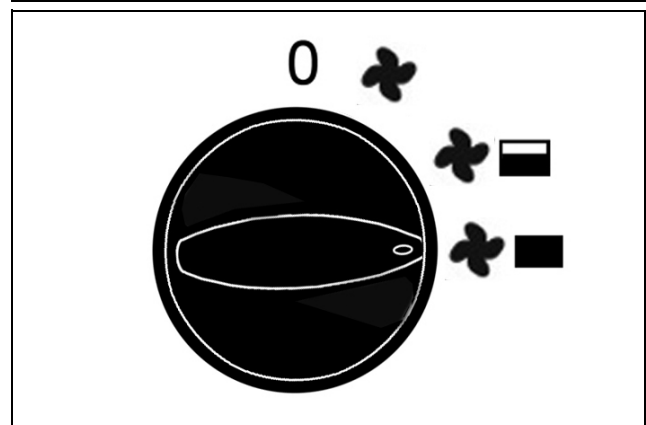
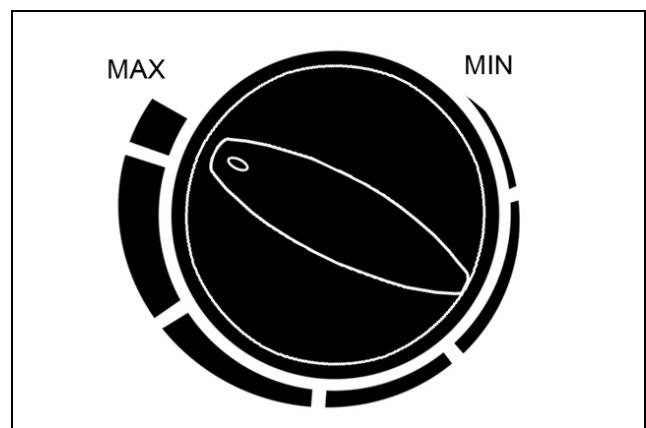
**WARNING: DO NOT USE THIS HEATER IN SMALL ROOMS IF OCCUPIED BY PERSONS NOT CAPABLE OF LEAVING THE ROOM ON THEIR OWN UNLESS CONSTANT SUPERVISION IS PROVIDED.**



**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 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 110V power supply.
3. Set the thermostat control to the maximum setting (fully clockwise).
4. Set the mode selector to one of the 3 settings:

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



5. Once the room reaches the required temperature, turn the thermostat control slowly counter-clockwise until the thermostat clicks. Leave the control in this position.
  - The room temperature will be maintained at this setting. The heater will continue to operate until the power switch is turned to the OFF position.



- When not in use, disconnect the heater from the power supply. Store it in a safe, dry, childproof location.

## SAFETY DEVICE

This heater is fitted with a thermal cut-out safety device which prevents the unit overheating.

If the thermal cut-out device is actuated, the heating elements will switch off and the fan will continue to run to cool the unit.

Allow time for the unit to cool (10 mins) before manually re-setting.

To re-set, firmly press the button located on the front panel using a suitable tool.



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## MAINTENANCE

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

- Clean the heater with a soft damp cloth, DO NOT use solvents or abrasives.
- 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 9.
- 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.

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## FAULT FINDING

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Problem	Possible Cause	Remedy
Heater does not operate, although plugged in with the selector switch and thermostat switched on.	Plug is loose/bad connection.	Pull the plug out & 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 product 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 the heater on a level surface.

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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.

# DECLARATIONS OF CONFORMITY



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 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 50564:2011, EN 60675:1995+A1:1998+A2:2018+A1:2019, EN IEC 61000-3-2:2019/A1:2021, EN IEC 55014-1:2021, EN IEC 55014-2:2021, EN 61000-3-3:2013/A2:2021, 60335-1:2012/A15:2021, 60335-2-30:2009/A12:2020, 62233:2008, EN 50525-2-21:2011, DIN EN 50525-2-21:2012-01, EN 60309-1:1989+A1:2007+A2:2012, IEC 60730-2-9:2015/AMD1:2018, EN 60309-2:1989+A1:2007+A2:2012, IEC 60730-2-9:2015/AMD2:2020, IEC 60730-1:2013/AMD1:2015, IEC 60730-1:2013, EN 61068-1-1:2016, EN IEC 61068-1:2018, IEC 60730-2-9:2015, IEC 62321-1:2013, IEC 62321-2:2021, IEC 62321-5:2014, IEC 62321-3-1:2014, IEC 62321-4:2014/A1:2017, 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 CE mark was first applied in: 2023

Product Description:	Electric Fan Heater
Model Number(s):	DEVIL 3003-B
Serial/Batch Number:	Refer to product/packaging label
Date of Issue:	12/09/2023

Signed:

J.A. Clarke  
Director

DEVIL 3003-B CE Clarke DOC 091223

Page 1 of 1



Hemmill 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:

The Ecodesign for Energy-Related Products Regulations 2010
The Electromagnetic Compatibility Regulations 2016
The Electrical Equipment (Safety) Regulations 2016
The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012

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

EN 50564:2011, EN 60675:1995+A1:1998+A2:2018+A1:2019, EN IEC 61000-3-2:2019/A1:2021, EN IEC 55014-1:2021, EN IEC 55014-2:2021, EN 61000-3-3:2013/A2:2021, 60335-1:2012/A15:2021, 60335-2-30:2009/A12:2020, 62233:2008, EN 50525-2-21:2011, DIN EN 50525-2-21:2012-01, EN 60309-1:1989+A1:2007+A2:2012, IEC 60730-2-9:2015/AMD1:2018, EN 60309-2:1989+A1:2007+A2:2012, IEC 60730-2-9:2015/AMD2:2020, IEC 60730-1:2013/AMD1:2015, IEC 60730-1:2013, EN 61068-1-1:2016, EN IEC 61068-1:2018, IEC 60730-2-9:2015, IEC 62321-1:2013, IEC 62321-2:2021, IEC 62321-5:2014, IEC 62321-3-1:2014, IEC 62321-4:2014/A1:2017, 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: 2023

Product Description:	Electric Fan Heater
Model Number(s):	DEVIL 3003-B
Serial/Batch Number:	Refer to product/packaging label
Date of Issue:	12/09/2023

Signed:

J.A. Clarke  
Director

DEVIL 3003-B UKCA Clarke DOC 091223

Page 1 of 1

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# Clarke®

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