

# Clarifire®



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

## 2.8KW ELECTRIC HEATER(110V)

MODEL NO: DEVIL 3003

PART NO: 6925125

### OPERATION & MAINTENANCE INSTRUCTIONS



ORIGINAL INSTRUCTIONS

GC1119 ISS 2

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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

## 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.

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## SPECIFICATIONS

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Operating Voltage / Frequency	110V / 50Hz
Operating Temperature Range	-15 to +60°C
Input Wattage:	
Fan only	0.04 kW
Heat Setting 1	1.4 kW
Heat Setting 2	2.8 kW
Required Power	12.7 - 25.5A
Max Air Output	945 m <sup>3</sup> /h
Safety Devices	Thermal cut-out
Ingress Protection	IPX4
Depth x Width x Height	400 x 260 x 390 mm
Weight	6.15 kg
Sound Pressure Level	54 dB

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

Item	Symbol	Value	Unit
<b>Heat output</b>			
Measured seasonal space heating energy efficiency			36%
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	$e_{lmax}$	N/A	kW
At minimum heat output	$e_{lmin}$	N/A	kW
In standby mode	$e_{lSB}$	N/A	kW

Item	Unit
<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
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
<b>Other control options (multiple selections possible)</b>	
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

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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

- 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 when there is water on the power cable.
- Turn the heater off when not in use and keep it in a safe, dry location.

The heater is designed to heat enclosed areas larger than 4m<sup>3</sup>, 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



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

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- 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

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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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- 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.

## MAINTENANCE.



**WARNING: DISCONNECT THE HEATER FROM THE POWER SUPPLY BEFORE ANY SERVICING OR MAINTENANCE. THIS MUST ONLY BE CARRIED OUT BY THE CLARKE SERVICE DEPARTMENT.**

- 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.

## SAFETY SYMBOLS

These safety symbols appear on the heater.

	Hot Surface, Do Not Touch		Do Not Cover
	WEEE Directive for the disposal of Waste Electrical & Electronic Equipment.		

## ELECTRICAL CONNECTIONS



**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



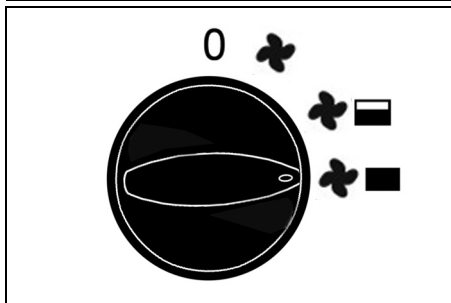
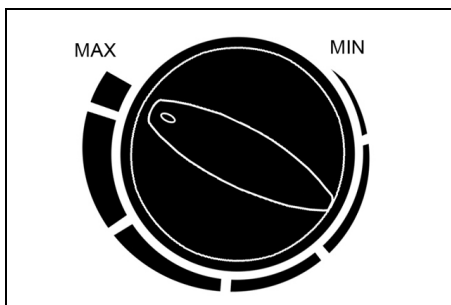
**WARNING: DO NOT USE THIS HEATER IN SMALL ROOMS IF OCCUPIED BY PERSONS NOT CAPABLE OF LEAVING THE ROOM ON THEIR OWN UNLESS CONSTANT SUPERVISION IS PROVIDED.**



**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 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.



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

## **SAFETY SYSTEMS**

The Devil 3003 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.

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## **MAINTENANCE**

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

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- Clean the heater with a soft damp cloth, Do not use solvents or abrasives.
  - Make sure that the heater grill is not blocked.
  - No other maintenance is required, should you discover any problem with the heater, return it to the Clarke service department for repair.
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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

<b>Problem</b>	<b>Possible Cause</b>	<b>Remedy</b>
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.

# DECLARATION OF CONFORMITY



**Clarke**<sup>®</sup>  
**INTERNATIONAL**

Hemnall 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 directive(s):

- 2014/30/EU *Electromagnetic Compatibility Directive.*
- 2014/35/EU *Low Voltage Equipment Directive.*
- 2011/65/EU *Restriction of Hazardous substances.*
- 2009/125/EC *Eco- Design Directive (EU 2015/1188).*

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

- EN 60335-2-30:2009 +A11:2012, EN 60335-1:2012 +AC:2014+A11:2014, EN 62233:2008,
- EN 55014-1:2006 +A1:2009 +A2:2011, EN 55014-2:2015, EN 61000-3-2:2014,
- EN 61000-3-3:2013.

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: 2018

**Product Description:** Electric Fan Heater - 2.8 kW  
**Model number(s):** Devil 3003  
**Serial / batch Number:** N/A  
**Date of Issue:** 03/09/2018

Signed:

J.A. Clarke  
Director

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# Clarke®

## QUALITY PRODUCTS

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Saws, sanders, lathes, mortisers and dust extraction.

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Cranes, body repair kits, transmission jacks for all types of workshop use.

### WATER PUMPS

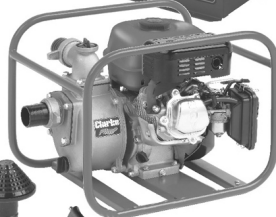
Submersible, electric and engine driven for DIY, agriculture and industry.

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