

Charlton®



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

22KW ELECTRIC FAN HEATER

MODEL NO: DEVIL 7025

PART NO: 6935457

OPERATION & MAINTENANCE INSTRUCTIONS

UK
CA | CE



ORIGINAL INSTRUCTIONS

DL0625-Rev12

INTRODUCTION

Thank you for purchasing this CLARKE product.

Before attempting to use this product, please read this manual thoroughly and follow the instructions carefully.

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.

FUNCTION AND OPERATING PARAMETERS

This is a forced air heater. It's intended use is for drying and the warming of commercial/industrial buildings 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.

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

| Item | Symbol | Value | Unit |
|--|----------------|-------|------|
| Heat output | | | |
| Nominal heat output | P_{nom} | 22.00 | kW |
| Minimum heat output (indicative) | P_{min} | 11.00 | kW |
| Maximum continuous heat output | $P_{max, c}$ | 22.00 | 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 SYMBOLS

The following symbols appear on the unit.

| | | | | | |
|---|--------------------------------------|---|---------------------|---|---------------------|
|  | Hot Surface, Do Not Touch |  | Do Not Cover |  | High Voltage |
| | | DO NOT COVER | | | |

SAFETY RULES

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

ELECTRICAL SAFETY



WARNING: THIS HEATER MUST BE EARTHED

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.

MAINTENANCE.



WARNING: SERVICING OR INTERNAL MAINTENANCE MUST ONLY BE CARRIED OUT BY THE CLARKE SERVICE DEPARTMENT.

1. Check that the heater is in good working order. Take immediate action to repair or replace damaged parts.
2. **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 Cleaning and Maintenance.
3. Only recommended parts should be used. Unapproved parts may be dangerous and will invalidate the warranty.
4. **DO NOT** attempt to repair a damaged heater, contact the Clarke service department.

POSITIONING



WARNING: DO NOT USE THE HEATER NEAR FLAMMABLE MATERIAL, LIQUIDS, SOLIDS, GASES 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.
8. **DO NOT** operate fan heaters in explosive atmospheres such as in the presence of flammable liquids, gases or dust such as in a paint spray booth or any explosive environment. Electric motors create sparks which may ignite dust or fumes.

OPERATION

1. This heater is intended for drying & warming of commercial/industrial buildings where adequate ventilation is provided. It is **NOT** for domestic use or for heating habitable areas.
2. The heater should **NOT** be used by children or persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge.
3. **CAUTION:** Some parts of this product can become very hot and cause burns. Particular attention should be given where, animals, children and vulnerable people are present.
4. The heater must only be used by people who have read these instructions and have been trained in its use.
5. **DO NOT** use if dropped.
6. **DO NOT** use if there is visible signs of damage.
7. **DO NOT** obstruct the air inlet and outlet sections of the heater.
8. **DO NOT** cover the heater with anything that could restrict the air flow.
9. **DO NOT** touch the heater casing or grille when first switched off, as these will be very hot and will take time to cool.
10. **DO NOT** get the heater wet or use in areas of high condensation.
11. **DO NOT** allow the power lead to touch hot surfaces.
12. **DO NOT** connect other appliances to the same mains socket as the heater.
13. **DO NOT** use this heater with a programmable timer used to switch it on automatically.
14. **DO NOT** leave the heater unattended.

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.
2. Please keep these instructions in a safe place for future reference.

ELECTRICAL CONNECTIONS



WARNING: THE INSTALLATION OF THIS APPLIANCE SHOULD BE CARRIED OUT BY A COMPETENT ELECTRICIAN AND BE IN ACCORDANCE WITH THE CURRENT IEE WIRING REGULATIONS (BS7671-2:2008).

This machine **MUST** be connected to a 400 Volt, 3 phase 50Hz supply through a suitably rated isolator switch. It cannot be operated from a single phase supply.

The user should purchase a suitable connecting cable capable of handling 63 Amps (recommended Cross Sectional Area 10mm²) and supply plug rated at 63A (or better) which complies with BSEN 60309. A length of 2-3 metres is recommended giving mobility to the appliance but without becoming a trip hazard

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

SAFETY SYSTEMS

THERMOSTATIC PROTECTION

The Devil 7025 has a manual reset thermal cut out to prevent the unit from overheating.

If the thermal cut out activates, then turn off the power and disconnect from the power supply. Allow the heater to cool down for several minutes before pressing the reset button. Reconnect to the power supply and turn on to resume operation.

LIST OF CONTENTS

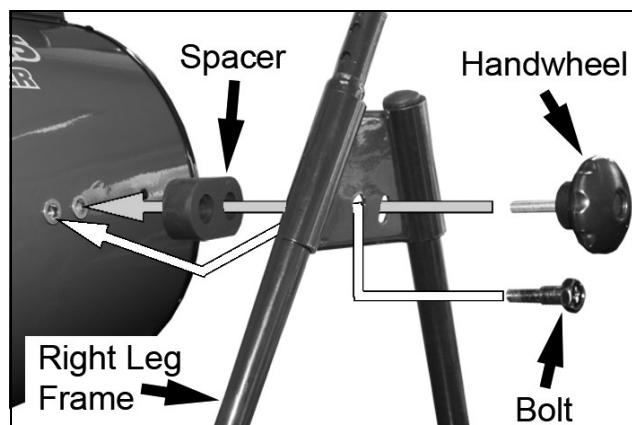
| | |
|----------------------------------|--------------------------|
| 1 x Heater | 1 x Axle c/w Circlip (2) |
| 1 x R/H & 1 x L/H Support Frames | 2 x Wheel |
| 1 x Upper Handle | 1 x Fixings Pack |

ASSEMBLY

1. Fit the right leg frame to the main body as shown.

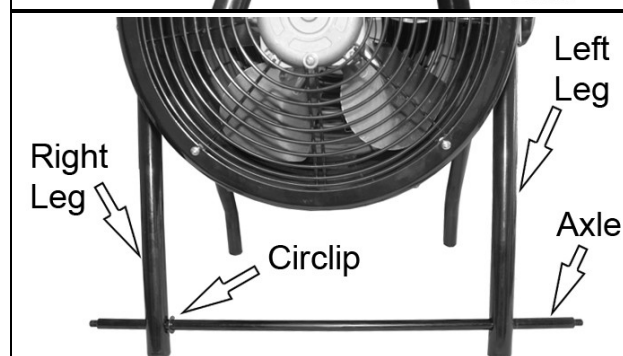
NOTE: The bolt needs to be inserted before the hand-wheel.

NOTE: The bolt goes through the larger of the 2 holes in the spacer.



2. Fit the axle and left hand support frame.

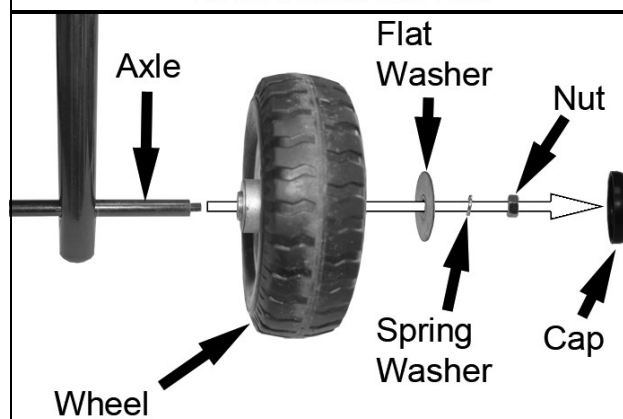
NOTE: The circlip shown must be on the inside of the legs.



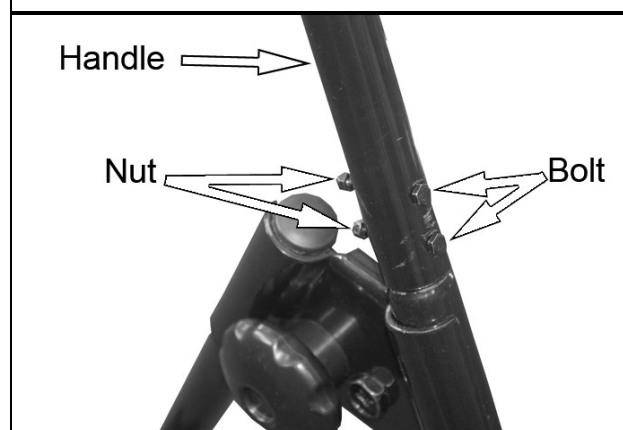
Viewed from the rear

3. Fit the wheels as shown.

NOTE: The cap fits over the flat washer.



4. Use the nuts and bolts supplied, to secure the handle to the leg frames as shown.



OPERATION






WARNING: 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.

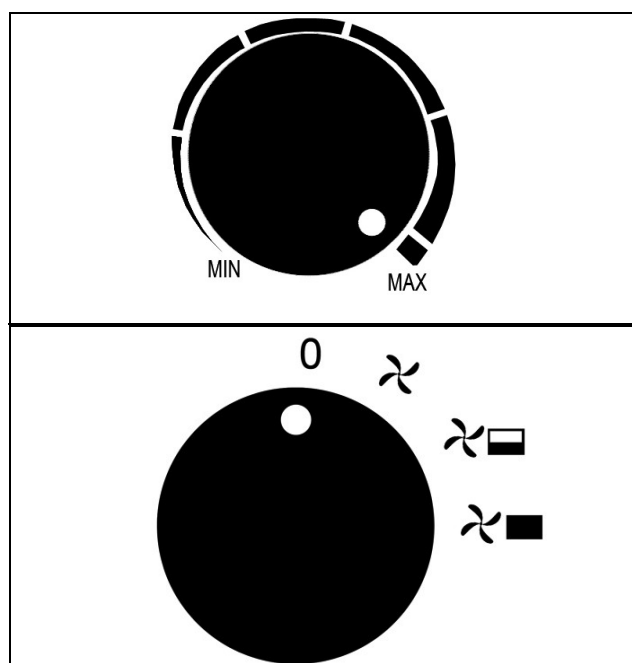


CAUTION: SOME PARTS OF THIS PRODUCT CAN BECOME VERY HOT AND CAUSE BURNS. PARTICULAR ATTENTION HAS TO BE GIVEN WHERE CHILDREN AND VULNERABLE PEOPLE ARE PRESENT.

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 |



- The heater will take up to three minutes to reach optimum temperature.
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. For fan only operation, turn the power switch to the fan only setting and set the thermostat to its minimum setting.
7. Turn the heater off by turning the power switch to "0",
 - Do not remove the plug from the mains supply. The fan will continue to run for several minutes to lower the temperature of the case and elements. Once the fan stops you can safely remove the plug from the power supply.
8. When not in use, disconnect the heater from the mains supply. Store it in a safe, dry, childproof location.

MAINTENANCE



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

- 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.

SPECIFICATIONS

| | |
|---|------------------------------|
| Operating Voltage, Current and Frequency: (V / A / Hz / Phs) | 400 V / 43A / 50Hz / 3 Phase |
| Operating Temperature: (Min/Max) (°C): | 0-40°C |
| Heat Output: (kW): | 22 kW |
| Air Output: (m ³ /h) | 1428m ³ /h |
| Safety Device: | Thermal cut-out |
| Duty Cycle Classification: | Continuous duty |
| Electrical Insulation Class | I |
| Product: Depth x Width x Height | 640 x 612 x 1025 mm |
| Product Weight | 29.05 kg |

ENVIRONMENTAL RECYCLING POLICY



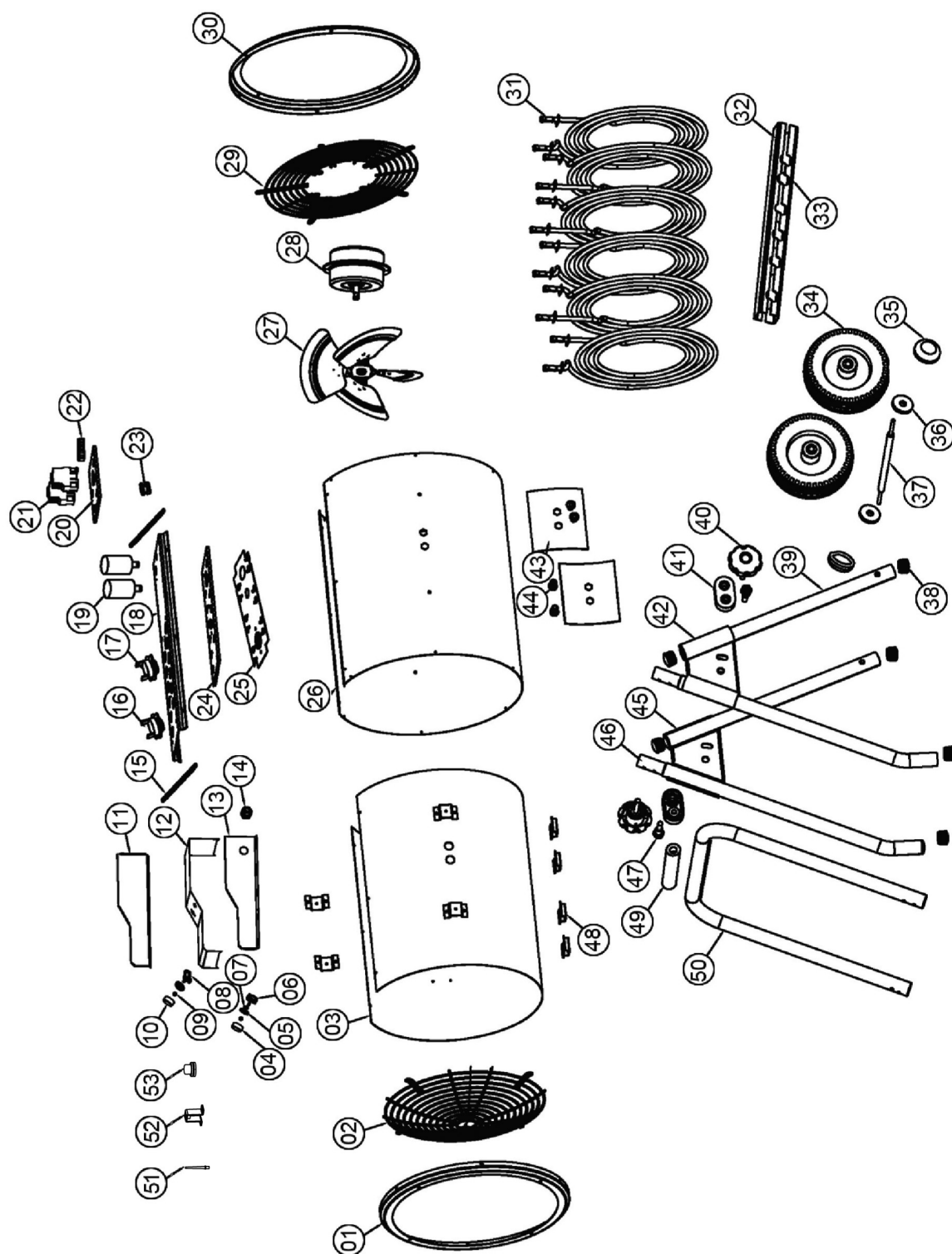
Through purchase of this product, the customer is taking on the obligation to deal with the WEEE in accordance with the WEEE regulations in relation to the treatment, recycling & recovery and environmentally sound disposal of the WEEE.

In effect, this means that this product must not be disposed of with general household waste. It must be disposed of according to the laws governing Waste Electrical and Electronic Equipment (WEEE) at a recognised disposal facility.

TROUBLE SHOOTING

| Problem | Possible Cause | Remedy |
|--|--|--|
| Heater does not operate, although plugged in with the switch and thermostat switched on. | Plug is loose/bad connection. | Pull the plug out & check all connections (cable/plug and socket). |
| | Fuse blown or circuit breaker trips. | Replace if necessary and investigate cause. If fuse blows repeatedly, consult your Clarke dealer. |
| | No power at socket outlet | Insert the plug in a suitable socket |
| Heating element glowing hot. | Input voltage too high or too low. | 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. |
| The unit has failed to heat up so only the air fan has operated. | Control switch not set at a "HEATING" level. | Turn switch to a heating level. |
| | 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. |
| | The manually reset cut-out has operated. | Disconnect the power. Take a suitable pin and insert it into the manual RESET hole in the control panel. Press the RESET button and connect the circuit. |
| Abnormal noise. | Heater is not level. | Stand heater on a level surface |

PARTS DIAGRAM



PARTS LIST

| | | | |
|----|-----------------------------|----|-----------------------------|
| 1 | Front Rings | 28 | Motor |
| 2 | Front Grille | 29 | Rear Grille |
| 3 | Heat Shield | 30 | Rear Rings |
| 4 | Switch Knob | 31 | Heating Elements |
| 5 | Securing Rings | 32 | Heater Bracket Upper |
| 6 | Speed Controller | 33 | Heater Bracket Bottom |
| 7 | Location Part For Switch | 34 | Wheel |
| 8 | Temperature Controller | 35 | Wheel Cover |
| 9 | Fasten Spring | 36 | Securing Plate |
| 10 | Thermostat Knob | 37 | Axle |
| 11 | Control Box L | 38 | Base Pad |
| 12 | Control Box Cover | 39 | Rear Frame |
| 13 | Control Box R | 40 | Adjustable Screw |
| 14 | Cable Inlet Gland | 41 | Spacer |
| 15 | Sealing Tape | 42 | Securing Plate L |
| 16 | Overheat Thermostat | 43 | Securing Plate |
| 17 | After Cooling Thermostat | 44 | Rivet Nut |
| 18 | Chassis Panel | 45 | Securing Plate R |
| 19 | Motor Capacitor. | 46 | Front Frame |
| 20 | Insulate Board Of Contactor | 47 | Fixing Bolt |
| 21 | Ac Contactor | 48 | Location Plate |
| 22 | Wire Terminal | 49 | Insulate Sleeve |
| 23 | Grommet | 50 | Upper Frame |
| 24 | Insulate Board | 51 | Temperature Control Top Rod |
| 25 | Heat Shield | 52 | Temperature Control Bracket |
| 26 | House Casing | 53 | Button |
| 27 | Fan | | |

Part number = (CXDEV7025 + the number of the part)

DECLARATION OF CONFORMITY - UKCA & CE

UKCA

Clarke
INTERNATIONAL

Hennell 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 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) (EU Exit) Regulations 2019

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

EN 55014-1:2017, EN 55014-2:2015, EN 61000-3-2:2014, EN 61000-3-3:2013, EN 61000-3-11:2000,
EN 61000-3-12:2011, EN 60335-2-30:2009+A11:2012, EN 62233:2008,
EN 60335-1:2012+AC:2014+A11:2014+A13:2017, IEC 62321-3-1:2013, IEC 62321-4:2013,
IEC 62321-5:2013, IEC 62321-6:2015, IEC 62321-7-1:2015, IEC 62321-7-2:2017, IEC 62321-8:2017,
IEC/EN 60675:1998, IEC 62301:2011

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: 2022

Product Description: Electric Fan Heaters – 5kW, 9kW, 15kW, 22kW, 30kW

Model number(s): Devil 7005, Devil 7009, Devil 7015, Devil 7025, Devil 7030

Serial / batch Number: N/A

Date of Issue: 13/04/2022

Signed:

J.A. Clarke
Director

Devil 7025 UKCA Clarke DOC 041322

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CE

Clarke
INTERNATIONAL

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 Directive
2011/65/EU Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Directive
2009/125/EC Eco-design Directive

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

EN 55014-1:2017, EN 55014-2:2015, EN 61000-3-2:2014, EN 61000-3-3:2013, EN 61000-3-11:2000,
EN 61000-3-12:2011, EN 60335-2-30:2009+A11:2012, EN 62233:2008,
EN 60335-1:2012+AC:2014+A11:2014+A13:2017, IEC 62321-3-1:2013, IEC 62321-4:2013,
IEC 62321-5:2013, IEC 62321-6:2015, IEC 62321-7-1:2015, IEC 62321-7-2:2017, IEC 62321-8:2017,
IEC/EN 60675:1998, IEC 62301:2011

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: 2014

Product Description: Electric Fan Heaters – 5kW, 9kW, 15kW, 22kW, 30kW

Model number(s): Devil 7005, Devil 7009, Devil 7015, Devil 7025, Devil 7030

Serial / batch Number: N/A

Date of Issue: 13/04/2022

Signed:

J.A. Clarke
Director

Devil 7025 CE Clarke DOC 041322

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