

CLAMPBRO®



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

ELECTRIC FAN HEATERS

MODEL NO: DEVIL 6003,6005,6009 & 6015

PART NO: ,6925220, 6925225, 6925230 & 6925235

OPERATION & MAINTENANCE INSTRUCTIONS



ORIGINAL INSTRUCTIONS

GC1119- rev 10

INTRODUCTION

Thank you for purchasing this CLARKE product.

This heater is only suitable for well insulated spaces or occasional use.

Before attempting to use this product, please read this manual thoroughly and follow the instructions carefully. In doing so you will ensure 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 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.

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.

THE FOLLOWING TABLE ADDRESSES THE INFORMATION REQUIREMENTS OF REG.2015/1188

Item	Symbol	Value				Unit
Heat output						
Measured seasonal space heating energy efficiency						36%
		6003	6005	6009	6015	
Nominal heat output	P_{nom}	3	5	9	15	kW
Minimum heat output (indicative)	P_{min}	1.5	2.5	4.5	5	kW
Maximum continuous heat output	P_{max}	3	5	9	15	kW
Auxiliary electricity consumption						
At nominal heat output	el_{max}	n/a	n/a	n/a	n/a	kW
At minimum heat output	el_{min}	n/a	n/a	n/a	n/a	kW
In standby mode	el_{SB}	0	0	0	0	kW
Type of heat input for electric storage local heaters only						
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
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 SYMBOLS

The following symbols appear on the unit.

	Hot Surface, Do Not Touch	 DO NOT COVER	Do Not Cover		High Voltage
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SAFETY RULES

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

POSITIONING



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

- Heater is designed for indoor use only.
- 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 up 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 such as curtains, furniture etc. Allow at least 2 metre clearance.
- DO NOT place the heater on a raised surface or anywhere where it could topple over
- Take care to ensure that the grille cannot be blocked by curtains or other fabrics.
- 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.

COMMON SENSE

- 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, childproof location.
- The heater is designed to heat enclosed areas larger than 4m³, 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.
- Young children must be kept away unless continuously supervised.

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 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.
- Only use the heater in an level position.
- Do not use this heater with a programmable timer used to switch it on automatically.

ELECTRICAL SAFETY



WARNING: THIS HEATER MUST BE FITTED WITH A SUITABLE SUPPLY CABLE AND PLUG. CLARKE PART NUMBER 6925237

WARNING: THIS HEATER MUST BE EARTHED

- Regularly inspect the power cable / plugs and all electrical connections 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 3-phase isolator into the main distribution board.

- Make sure that the voltage on the rating plate 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.

MAINTENANCE.



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

- Check that the heater is in good working order. Take immediate action to repair or replace damaged parts.
- 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.
- Use recommended parts only. Unapproved parts may be dangerous and will invalidate the warranty.
- DO NOT attempt to repair a damaged heater, contact the Clarke service department.

SERVICE & REPAIRS

- Have your appliance repaired by a qualified person using identical replacement parts. This will ensure that the safety of the appliance is maintained.

ELECTRICAL CONNECTIONS



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

DEVIL 6003 (3KW) HEATER UNITS

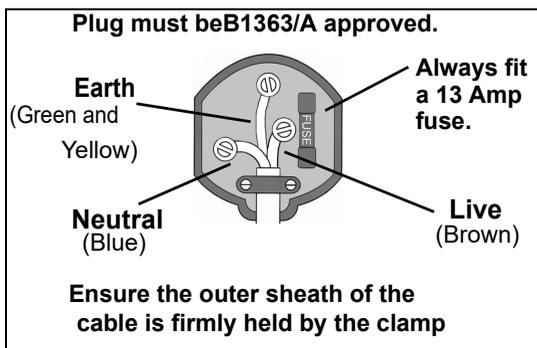
Connect the mains lead to a standard 230Volt 50Hz electrical supply through an approved 13 amp BS1363 plug or a suitably fused isolator switch.

If the plug has to be changed because it is not suitable for your socket, or due to damage, it should be cut off and a replacement fitted, following the wiring instructions shown below. The old plug must be disposed of safely, as insertion into a mains 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 of this product do not correspond with the markings on the terminals of your plug, proceed as follows.



•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 & GREEN** wire must be connected to the terminal which is marked **E** or  or

coloured **Green**.

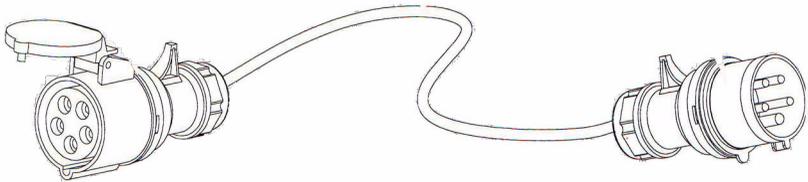
We strongly recommend that this machine is connected to the mains supply via a Residual Current Device (RCD).

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

DEVIL 6005 (5KW), DEVIL 6009(9KW) AND DEVIL 6015(15KW) UNITS

These heaters **MUST** be connected to a 400 Volt, 3 PHASE 50Hz supply through a suitably fused isolator switch. They cannot be operated from a single phase supply.

The user should purchase a suitable connecting lead as shown in the diagram, which is compatible with the appliance socket. The unit requires 5 pins including a master earth pin, and is suitable for AC 380/415v, 50/60Hz with a capacity of 16A/6h (Devil 6005 and 6009) or 32A/6h (Devil 6015) and rated at IP44 class (or better) insulation. A length of 2-3 metres is recommended giving mobility to the appliance but without becoming a trip hazard.



The plug incorporates a hood which will secure the cable in position when engaged with the appliance.

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

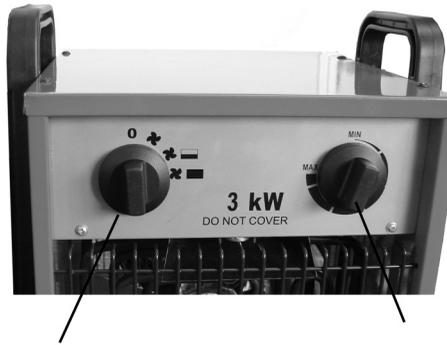
OPERATION

The Devil range of fan assisted electric heaters are suitable for household (Devil 6003 only) or workshop/factory use. They incorporate a thermostat which detects the temperature of the room air and controls the heater to maintain a pre-selected temperature between 0 & 40°C. A manually reset thermal cutout is provided for safety in the event of overheating on the 6005, 6009 & 6015 models. The 2kw and 3kw units are fitted with a self-resetting thermal cutout. The fan motor runs independently of the thermostat and continues running after the heating element has been switched off.

With the heater sited on a firm level surface and at a safe distance from flammable objects (in compliance with all safety precautions), plug the heater into the mains and set the thermostatic control to the maximum temperature setting. Switch the heater on to one of the following power settings. Once the room reaches the required temperature, you should turn the thermostatic control slowly anti-clockwise until the heater switches off. The heater will now start and stop automatically to maintain the room temperature.

3 KW HEATERS

The 3kw heater has three settings for 1) fan only, 2) fan plus single heating element, 3) fan plus both heating elements. The other control is a progressive thermostat which is rotated through 270 degrees. A cutout is used to maintain a constant pre-set temperature.



3-position fan speed control

thermostatic temperature control

The thermostat will then switch the heater on and off automatically to control the room temperature according to the pre-set value, maintaining a constant room temperature.

When using the heater to warm a cold room, first turn the thermostat to MAX and run the heater on full power until the room temperature reaches the required value, then turn the thermostat anti-clockwise until it switches off.

When using the heater for the first time a slight emission of smoke may be noticed. This is quite normal and soon stops. It is caused by residual traces of oil remaining on the element from production.

After use, turn the thermostat to the OFF position and the selector switch to the Fan Only position, and leave the unit to cool down for a couple of minutes.

5KW, 9KW & 15KW HEATERS

The 5 & 9kw units have a three-position twist control for FAN only, and FAN plus either half or full heat output. The 15kw unit has a four position control;- FAN only, FAN + 1/3, FAN + 2/3 & FAN + full heat output. A thermostatic temperature control is also provided for fine control of heat output at a constant pre-set temperature.

Should the heater overheat, a thermal cutout will operate, shutting down the unit. If this happens, allow time for the unit to cool (approx. 10 minutes) before pressing the RESET using a suitable tool, and restarting the heater.

When switching the unit OFF, it is recommended that the unit is run in the FAN ONLY mode for approx. 10 minutes, to cool the heating elements, before switching off completely and finally disconnecting from the mains supply



3-position fan speed
/temperature control

Reset

thermostatic
temperature control

The thermal cutout may also operate if the heater is shut down without allowing to cool sufficiently. If subsequently, the heater fails to start, press the RESET using a suitable tool and try again.

MAINTENANCE

If the heater has been used, ALWAYS allow it to cool down for at least 10 minutes (by switching the heater off, but leave the fan running). Always disconnect from the mains supply before performing any maintenance tasks.

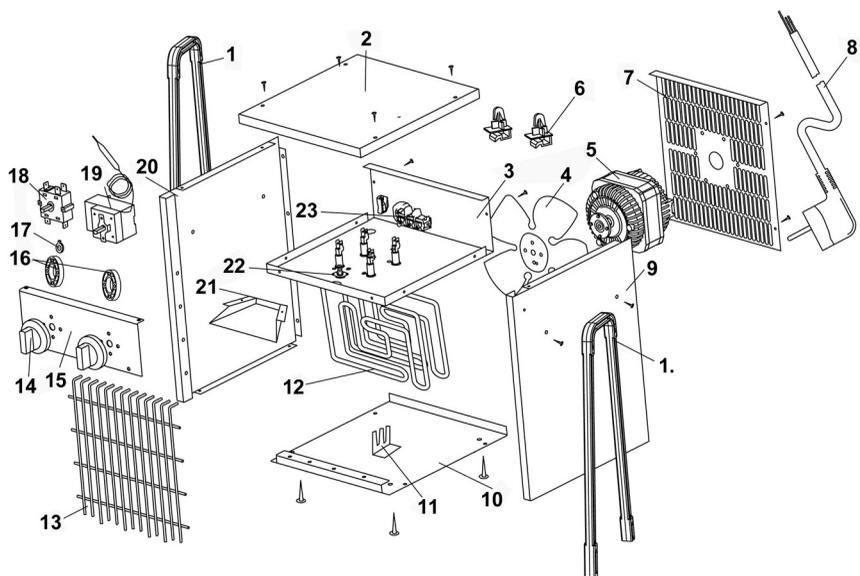
PERIODICALLY

1. Use compressed air to clean out the unit. Always wear a dust mask to perform this operation.
2. If there is any serious build up of dirt, wipe thoroughly with a damp cloth. Take care that no moisture enters the heater.
3. Inspect the mains cable for damage. Heat damage will cause the cable to stiffen and crack. If this is found, have the cable replaced. Check the cable routing and ensure it is well away from the heat source.
4. Ensure the heating elements are clear of dust (use compressed air to clean the heater if possible).
5. Avoid using solvents when cleaning plastic parts, most plastics are susceptible to damage from various types of commercial solvents.
6. Refer to your Clarke dealer if internal maintenance is required. The unit is fitted with tamper-proof screws to discourage users from dismantling the heater.
7. When storing the heater, allow it to cool down, and return it to its own packaging for storage in a dry, well ventilated place.

FAULTFINDING

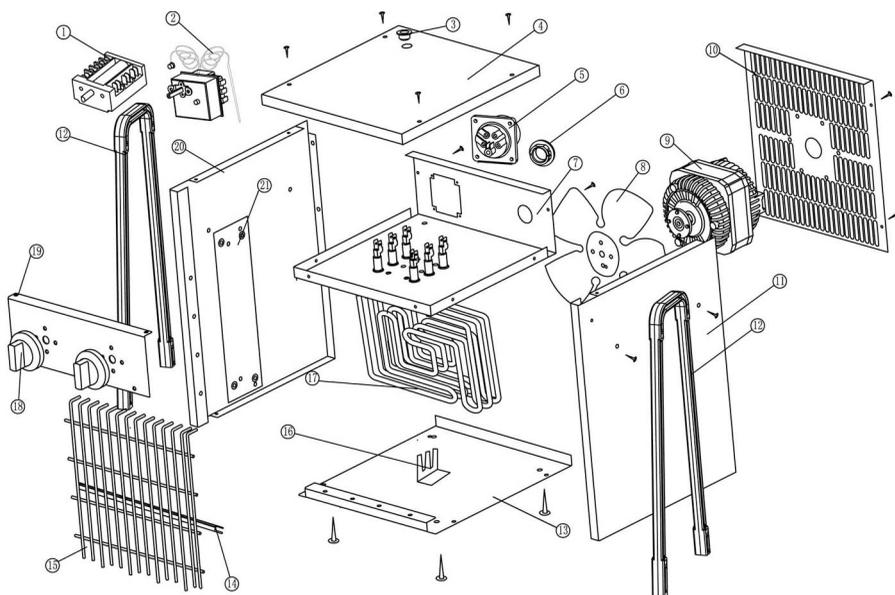
Problem	Possible Cause	Remedy
Heater does not operate although plugged in with the switch and thermostat switched on.	Plug is loose/bad connection.	Pull the plug out and check the connection of the plug and socket.
	Fuse blown	Replace if necessary and investigate cause. If fuse blows repeatedly consult your Clarke dealer.
	No power at socket.	Plug into a suitable socket.
Heating element glowing hot.	Incorrect input voltage	Use correct power supply in accordance with the rating plate/label.
	Air inlet grill 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 fan is operating	Control switch no set to a heating level.	Turn switch to HEATING
	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 DEVIL 6003



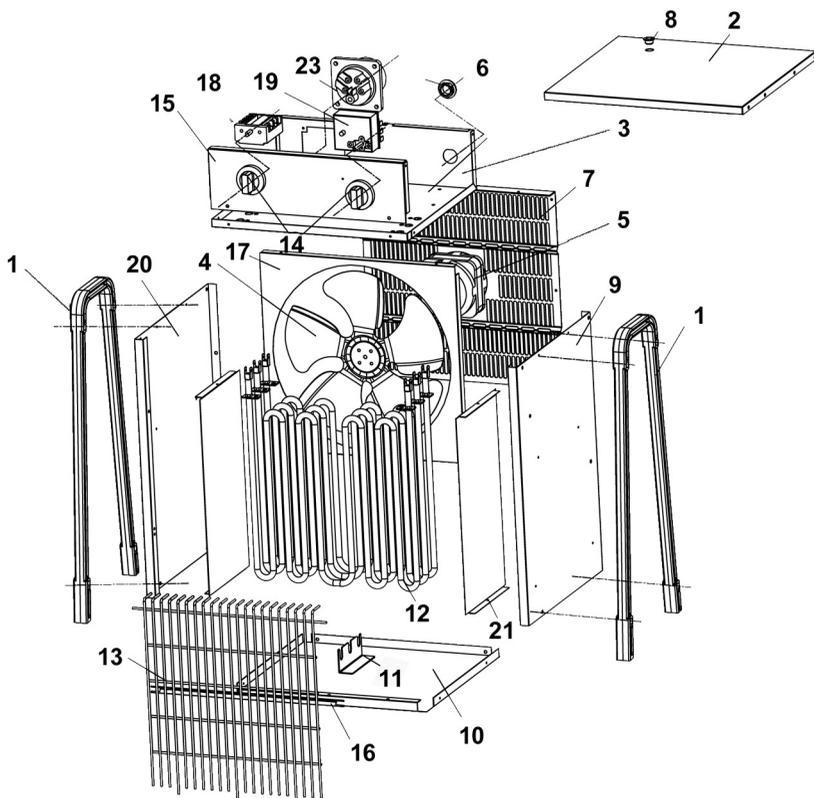
1	Support Leg	13	Front Grille
2	Top Panel	14	Fan Control KNOB
3	Chassis Panel	15	Front Panel
4	Fan	16	Mounting Packer
5	Motor	17	Washer
6	Retaining Clips	18	Control Unit
7	Rear Panel	19	Temp Controller
8	Power Cable	20	Side Panel (LH)
9	Side Panel (RH)	21	Air Duct
10	Base Panel	22	Thermal Cut-out
11	Heater Bracket	23	Terminal Block
12	Heating Element 1.4kW		

PARTS DIAGRAM DEVIL 6005



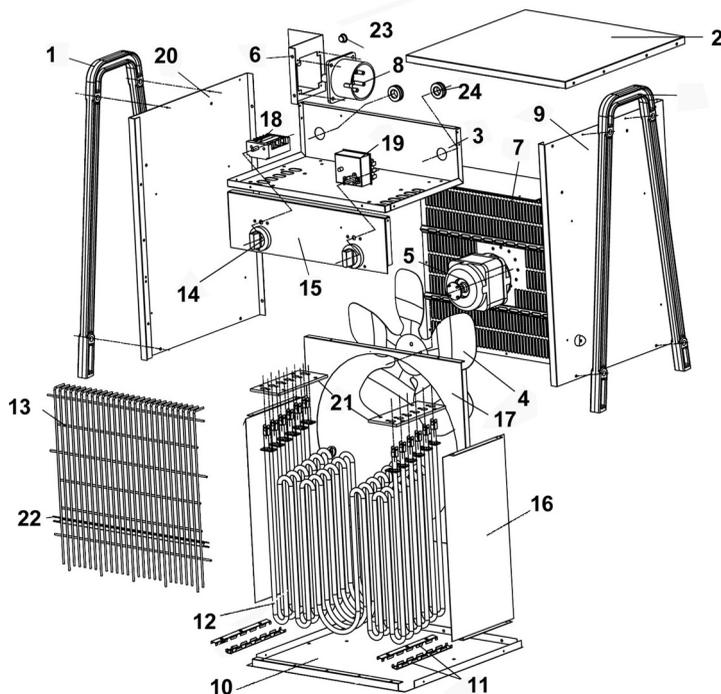
1	Support Leg	12	Heating Element
2	Top Panel	13	Front Grille
3	Chassis Panel	14	Fan Control KNOB
4	Fan	15	Front Panel
5	Motor	16	Plastic Plug
6	5-Pin Socket	17	Support Bar
7	Rear Panel	18	Control Unit
8	Cable Entry	19	Temp Controller
9	Side Panel (RH)	20	Side Panel (LH)
10	Base Panel	21	Heat Shield
11	Heater Bracket		

PARTS DIAGRAM DEVIL 6009



1	Support Leg	12	Heating Element
2	Top Panel	13	Front Grille
3	Chassis Panel	14	Fan Control KNOB
4	Fan	15	Front Panel
5	Motor	16	Plastic Plug
6	5-Pin Socket	17	Support Bar
7	Rear Panel	18	Control Unit
8	Cable Entry	19	Temp Controller
9	Side Panel (RH)	20	Side Panel (LH)
10	Base Panel	21	Heat Shield
11	Heater Bracket		

PARTS DIAGRAM DEVIL 6015



1	Support Leg	13	Front Grille
2	Top Panel	14	Fan Control Knob
3	Chassis Panel	15	Front Panel
4	Fan	16	Heat Shield
5	Motor	17	Closing Plate
6	Angle Bracket	18	Control Unit
7	Rear Panel	19	Temp Controller
8	Cable Entry	20	Side Panel (LH)
9	Side Panel (RH)	21	Heater Retainer
10	Base Panel	22	Support Bar
11	Heater Bracket	23	Plug
12	Heating Element	24	Bush

SPECIFICATIONS

Item	Published Specification			
Model	Devil 6003	Devil 6005	Devil 6009	Devil 6015
Part No	6925220	6925225	6925230	6925235
Weight	5.5 kg	7.0 kg	9.0 kg	14.4 kg
Dims (mm)	295x265x425	295x305x250	350x335x465	350x335x465
Input Wattage(kw)	1.5(setting 1) 3.0(setting 2)	2.5(setting 1) 5.0(setting 2)	4.5(setting 1) 9.0(setting 2)	95w(fan only) 5kw(setting 1) 10kw(setting 2) 15kw(setting 3)
Input Amperage	6.4(setting 1) 12 (setting 2)	7.2	13	21.65
Input Voltage	230V 50Hz	400V/50Hz	400V/50Hz	400V/50Hz
Fuse Rating	13A	16A	16A	32 A
Air Output	512 m ³ /h	557 m ³ /h	773 m ³ /h	1559 m ³ /h
Sound Level	70dB (A)	70dB (A)	70dB (A)	70dB (A)
Insulation Class	IPX4	IPX4	IPX4	IPX4
Heat Output	3 kW	5 kW	9 kW	15 kW
Operating Temperature	0-40°C	0-40°C	0-40°C	0-40°C

DECLARATION OF CONFORMITY



Clarke[®]
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.*

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 55014-2:1997+A1:2001 +A2:2008,
EN 61000-3-2:2014, EN 61000-3-3:2013 EN61000-3-11:2000, EN61000-3-12:2011.

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: 2007

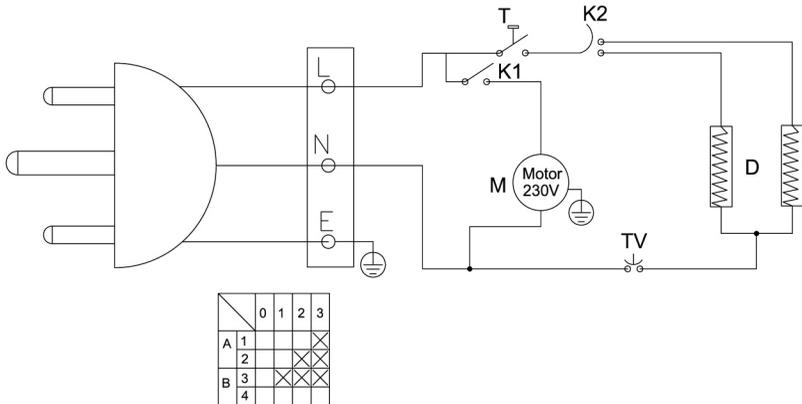
Product Description: Electric Fan Heaters - 3kW, 5kW, 9kW, 15kW
Model number(s): Devil 6003, Devil 6005, Devil 6009, Devil 6015
Serial / batch Number: N/A
Date of Issue: 03/07/2017

Signed:

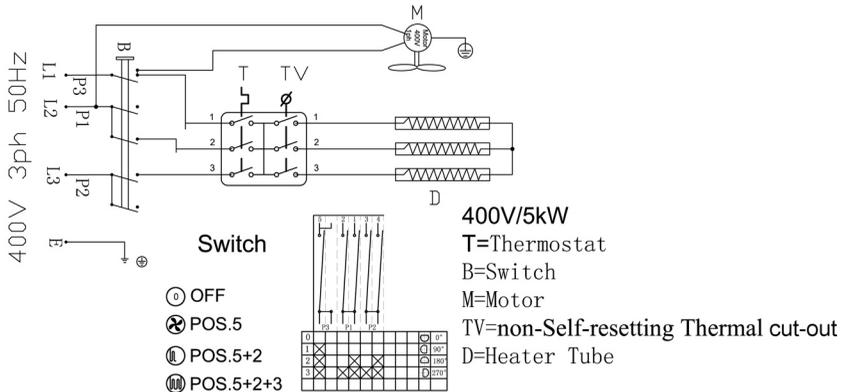
J.A. Clarke
Director

WIRING DIAGRAMS

Model:3KW



Model:5KW



A SELECTION FROM THE VAST RANGE OF

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