



Please dispose of packaging for the product in a responsible manner. It is suitable for recycling. Help to protect the environment, take the packaging to the local amenity tip and place into the appropriate recycling bin.



Never dispose of electrical equipment or batteries in with your domestic waste. If your supplier offers a disposal facility please use it or alternatively use a recognised re-cycling agent. This will allow the recycling of raw materials and help protect the environment.

**FOR HELP OR ADVISE ON THIS PRODUCT PLEASE CONTACT YOUR DISTRIBUTOR,
OR SIP DIRECTLY ON:
TEL: 01509500400
EMAIL: sales@sip-group.com or technical@sip-group.com
www.sip-group.com**

Ref: 030613

Sip
SIP INDUSTRIAL

machinery specialists since 1968

Fireball 37

Ceramic Heater



09193

Please read and fully understand the instructions in this manual before operation. Keep this manual safe for future reference

DECLARATION OF CONFORMITY

Declaration of Conformity

We

SIP (Industrial Products) Ltd
Gelders Hall Road
Shepshed
Loughborough
Leicestershire
LE12 9NH
England

As the manufacturer's authorised representative within the EC
declare that the

Fireball 37 Ceramic infrared Heater - SIP Pt. No. 09193
Suppliers Part No. HL-E48

Conforms to the requirements of the following directive(s), as indicated.

2006/95/EC	Low Voltage Directive
2004/108/EC	EMC Directive
2002/95/EC	RoHS Directive

And the following harmonised standard(s)

EN 55014-1:2006
EN 55014-2:1997+A1:2001
EN 61000-3-2:2006
EN 61000-3-3:1995+A1:2001+A2:2005
EN 60335-1:2002+A11:2004+A12:2006+A2:2006+A13:2008+A14:2010
EN 60335-2-30:2009
EN 62233:2008

Signed: 

Mr P. Ippaso - Managing Director - SIP (Industrial Products) Ltd
Date: 03/05/2012.



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SAFETY SYMBOLS USED THROUGHOUT THIS MANUAL



Danger / Caution: Indicates risk of personal injury and/or the possibility of damage.



Warning: Risk of electrical injury or damage!



Note: Supplementary information.

SAFETY INSTRUCTIONS

IMPORTANT: Please read the following instructions carefully, **failure to do so could lead to serious personal injury and / or damage to the ceramic infrared heater.**

When using your ceramic infrared heater, basic safety precautions should always be followed to reduce the risk of personal injury and / or damage to the ceramic infrared heater.

Read all of these instructions before operating the ceramic infrared heater and save this user manual for future reference.

The ceramic infrared heater should **not** be modified or used for any application other than that for which it was designed.

This ceramic infrared heater is an efficient, robust heater which provides long wave infrared radiation.

If you are unsure of its relative applications do not hesitate to contact us and we will be more than happy to advise you.

Before operating the ceramic infrared heater always check no parts are broken, and that no parts are missing.

Always operate the ceramic infrared heater safely and correctly.

KNOW YOUR CERAMIC INFRARED HEATER: Read and understand the owner's manual and labels affixed to the ceramic infrared heater. Learn its applications and limitations, as well as the potential hazards specific to it.

KEEP CHILDREN AND UNTRAINED PERSONNEL AWAY FROM THE WORK AREA: All visitors should be kept at a safe distance from the work area; never allow untrained persons to operate the ceramic infrared heater. .

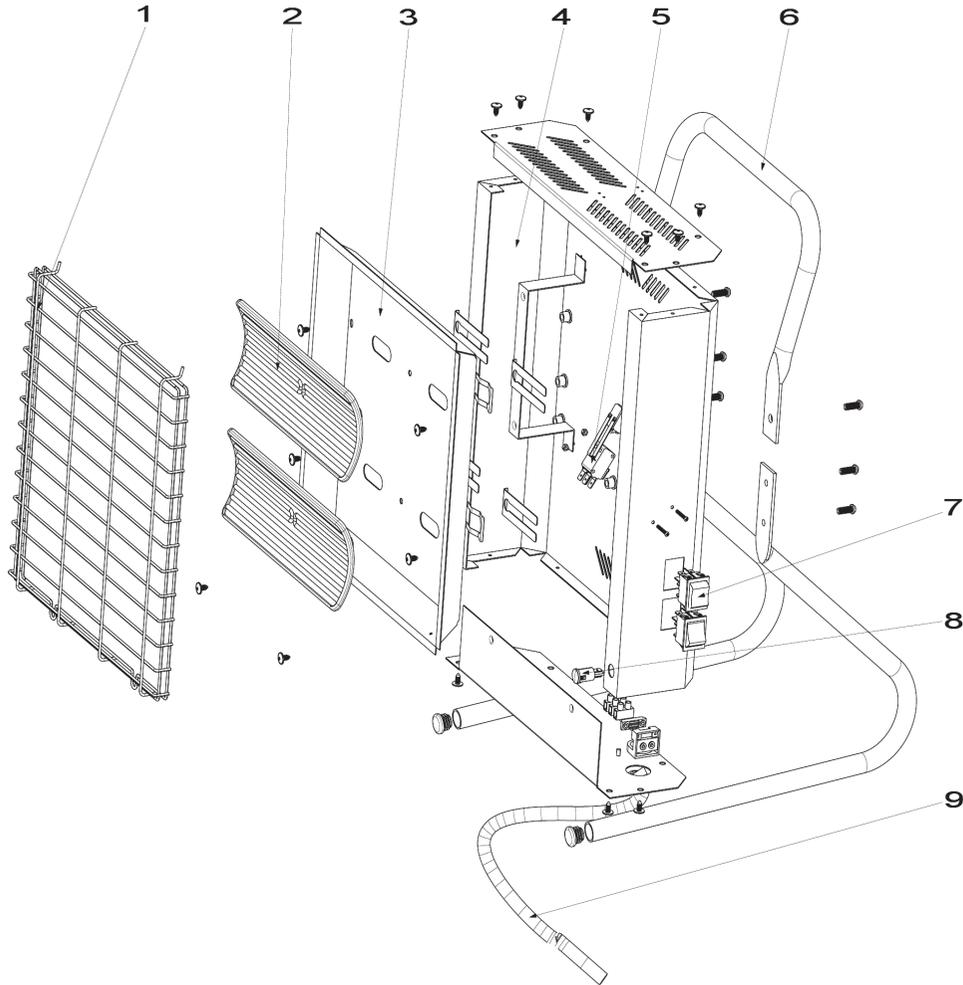
STAY ALERT: Always watch what you are doing and use common sense.

NEVER LEAVE THE CERAMIC INFRARED HEATER UNATTENDED: When in use.

PARTS LIST

Ref. No.	Description	SIP Part No.
1.	Safety guard	PW09-10255
2.	Ceramic infrared element	91751
3.	Reflector	PW09-10256
4.	Housing	PW09-10257
5.	Tilt switch	PW09-10258
6.	Handle c/w leg stand	PW09-10259
7.	Main switch	PW09-10260
8.	Indicator lamp	PW09-10261
9.	Mains lead	PW09-10262

EXPLODED DIAGRAM



SAFETY INSTRUCTIONS...cont

HAVE YOUR CERAMIC INFRARED HEATER REPAIRED BY A QUALIFIED PERSON: The ceramic infrared heater is in accordance with the relevant safety requirements. Repairs should only be carried out by qualified persons using original spare parts, otherwise this may result in considerable danger to the user and void the warranty.

DANGER! Check that the ceramic infrared heater is in sound condition and good working order before each use; Take immediate action to repair or replace faulty / damaged parts.

WARNING! Only operate on a level and stable surface.

WARNING! RISK OF ELECTRIC SHOCK. Do not expose the heater to water spray, rain, dripping water or moisture of any kind.

DO NOT ABUSE THE MAINS LEAD: Never pull the mains lead to remove the plug from the mains socket, or to move the heater from place to place. Keep the mains lead away from heat, oil and sharp edges. If the mains lead is damaged, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid unwanted hazards.

NEVER STAND ON THE CERAMIC INFRARED HEATER: The ceramic infrared heater is not designed for this purpose.

DO NOT dismantle, tamper with or modify the ceramic infrared heater, as this may be dangerous and will invalidate the warranty.

- If a problem with the ceramic infrared heater is experienced or suspected stop using the ceramic infrared heater **immediately** and contact your distributor for repair.
- Regularly inspect the ceramic infrared heater, ensuring that it is in good working order and condition.
- Always ensure that the work area is clean and tidy, free from unrelated materials.
- Keep away from flammable objects, materials & surfaces. This product gets very hot during use. Use in a location where accidental contact (particularly by children) is unlikely.
- Ensure on/off switches are switched to off (0) before connecting mains lead to the power supply.
- **ALWAYS** check that the safety guard is in place, undamaged and firmly attached.
- Keep the work area clean and clear of unnecessary items.
- Keep children and unauthorised persons away from the heater, as it gets very hot!
- Disconnect from the mains and allow to cool before moving or attempting any cleaning or maintenance.
- Keep hands away from the heating elements.
- Failure to follow the warnings in this manual, may result in personal injury and/or property damage.
- Turn the heater off and disconnect it from the mains supply when moving from one location to another.
- Never operate the heater without all guards in place.
- **DO NOT** get the heater wet or use in damp or wet locations or areas where there is condensation.

SAFETY INSTRUCTIONS....cont

- **DO NOT** move the heater whilst in operation or even when its still warm.
- **DO NOT** touch the heating elements until they have had adequate time to fully cool.
- **DO NOT** remove the safety guard whilst the heater is switched on, turn off and allow cool for at least 30 minutes before any maintenance can be carried out.
- **DO NOT** allow unqualified persons to disassemble the heater for any reason, the heater must be checked by qualified personnel only.
- **DO NOT** use this product to perform a task for which it has not been designed, it was designed for heating objects only; It was **NOT** designed as a space heater for heating areas such as a room.
- **DO NOT** use the heater without the safety guard or heating elements correctly installed.
- **Warning** if a fuse blows, ensure it is replaced with an identical fuse type and rating.
- **DO NOT** place any objects on the safety guard or on the covers at any time.
- **ENSURE** the heater is at least 2 meters away from any object.
- When not in use, store the heater carefully in a safe, dry, childproof location.
- **DO NOT** perform a flash test as this will reduce the life of the elements.
- When earth bond testing the readings should be 0.10mΩ and below.
- **NEVER** cover the heater during operation or whilst it cools after operation.

If the heater is used in a place of work all rules and laws etc. relating to the use of portable electrical appliances should be followed.



CAUTION: The warnings and cautions mentioned in this user manual can not cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be applied.

TROUBLESHOOTING

Fault	Possibly solution
Heater does not operate	<ul style="list-style-type: none">• Check power supply.• Ensure that the anti tilt switch has not been activated.• Check elements for damage or misalignment.• Check all wiring connections.• Check fuse• Check the safety cut-out switch
Other symptoms	<ul style="list-style-type: none">• Contact distributor for repair.

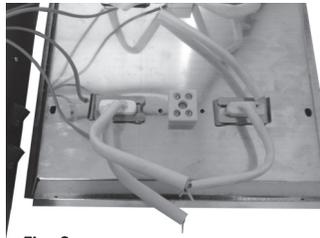


Fig. 9

4. Unscrew the element leads from the terminal block (make a note of where the brown & blue wires are connected), (Fig.9).

5. Slide out both sides of the retaining spring clips that secure the element into position (Fig.10).

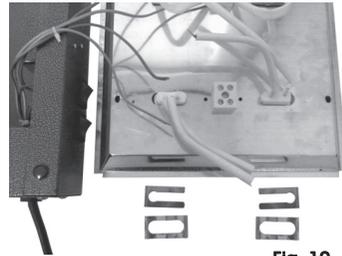


Fig. 10

6. Push the element out from the reflector (fig.11).
7. Fit the new element in reverse order as the removal process.



Fig. 11

8. Re-fit the reflector and secure with the four screws.
9. Re-fit the safety guard and secure with the two screws.



Caution: Be careful when fitting a new element as they are ceramic infrared, they can brake if too much pressure is applied.

WARNING! It is the responsibility of the owner and the operator to read, understand and comply with the following:

You must check all electrical products, before use, to ensure that they are safe. You must inspect power cables, plugs, sockets and any other connectors for wear or damage.

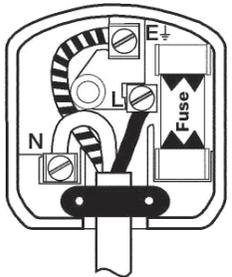
You must ensure that the risk of electric shock is minimised by the installation of appropriate safety devices; A residual current circuit Breaker (RCCB) should be incorporated in the main distribution board. We also recommend that a residual current device (RCD) is used. It is particularly important to use an RCD with portable products that are plugged into a supply which is not protected by an RCCB. If in any doubt consult a qualified electrician.

Connecting to the power supply:

This SIP ceramic infrared heater is fitted with a standard 230v ~ 13 amp type plug. Before using the heater, inspect the mains lead and plug to ensure that neither are damaged. If any damage is visible have the heater inspected / repaired by a suitably qualified person. If it is necessary to replace the plug a heavy duty impact resistant plug would be preferable.

The wires for the plug are coloured in the following way:

Yellow / green	Earth
Blue	Neutral
Brown	Live



As the colours of the wires may not correspond with the markings in your plug, proceed as follows: The wire which is coloured blue, must be connected to the terminal marked with N or coloured black. The wire which is coloured brown, must be connected to the terminal, which is marked L or coloured red. The wire which is coloured yellow / green should be connected to the terminal which is coloured the same or marked



Always secure the wires in the plug terminal carefully and tightly. Secure the cable in the cord grip carefully.

ELECTRICAL CONNECTION...cont



Warning: Never connect live or neutral wires to the earth terminal of the plug. Only fit an approved plug with the correct rated fuse. If in doubt consult a qualified electrician.



Note: Always make sure the mains supply is of the correct voltage and the correct fuse protection is used. In the event of replacing the fuse always replace the fuse with the same value as the original.



Note: Due to the input current required to run the heater, it is advisable not to use an extension lead, particularly when running both elements. No more than 1 heater should be ran from the same ring main for the same reason.



Note: If an extension lead is necessary in order to reach the mains supply; The cross section should be checked so that it is of sufficient size so as to reduce the chances of voltage drops. Always fully unwind the lead during use.

TECHNICAL SPECIFICATION

Input Voltage	230v ~ 50Hz
Input Fuse Rating	13 amps
Heat output setting one	1400 w (1.4kw)
Heat output setting two	2800 w (2.8kw)
Protection	IP23
Net weight	5.4 Kg
Gross Weight	6.6 Kg

MAINTENANCE INSTRUCTIONS

- Always switch off and allow to cool before attempting any cleaning and / or adjustments.
- Clean the heater with a damp, **not wet**, cloth.
- **DO NOT** use abrasive cleaners or polishes.
- **DO NOT** use solvents or other corrosive liquids as they may damage the elements, outer casing / grill.
- When not in use store the heater carefully in a safe dry childproof location.

REPLACING AN ELEMENT



Note: Before installing a new element, make sure the heater has cooled down for at least 30 minutes.

1. Remove the safety guard on the front of the heater, by un-screwing the two screws, lifting up the guard and then pulling in a downwards direction (Fig.6)

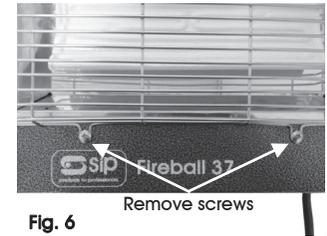


Fig. 6

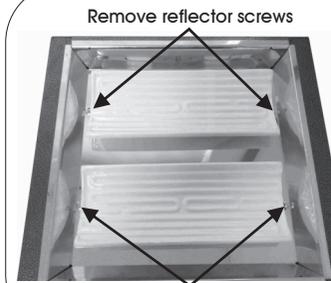


Fig. 7

2. Remove the four reflector screws (Fig.7).

3. Lift the reflector out completely with the elements still attached, make sure its clear of the main body (Fig.8).



Fig. 8

OPERATING INSTRUCTIONS

The ceramic infrared heater has basic operation, as described below.

1. Ensure both switches are in the off (0) position before connecting the heater to the mains supply (Fig.5).



Caution: The heater must be a minimum of 2 metres away from the object that is to be heated.

2. Move the heater to the desired object to be heated.
3. Ensure the heater is placed on a level, stable surface.
4. Connect to the mains supply and switch on at the mains socket.
5. On the side of the heater there are two switches (Fig.5), the top one operates the top element, and the bottom one operates the bottom element.
6. Select the desired heat output by pressing one of the switches to the on (I) position for half heat output, or both switches to on (I) for full heat output.
7. To switch the heater off, switch both switches to the off (0) position.

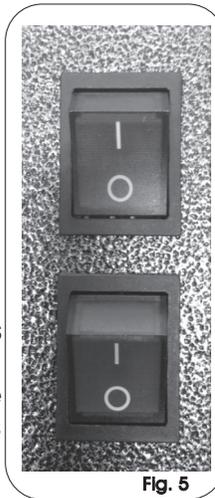


Fig. 5



Caution: Never move the heater whilst it is switched on, this could potentially damage the elements.

In the event of the heater accidentally being knocked over, a safety cut-out switch will activate at an angle of 35°, Follow these steps to re-start the heater.

- Turn both switches to the off (0) position.
- Disconnect from the mains supply.
- Return the heater to a standing position.
- Check for damage to the heating elements and safety guard, replace any damaged items with original manufacturer parts.
- If no damage has occurred, then re-connect the plug to the mains supply and switch the heater back on.



Caution: Never use the heater if there is damage to the safety guard or elements, this is dangerous and could injure you or people around you, if damage has occurred then stop using the heater *immediately* and replace the damaged parts.

GUARANTEE

This SIP ceramic infrared heater is covered by a 12 month parts and labour warranty covering failure due to manufacturers defects. This does not cover failure due to misuse or operating the ceramic infrared heater outside the scope of this manual - any claims deemed to be outside the scope of the warranty may be subject to charges including, but not limited to parts, labour and carriage costs.

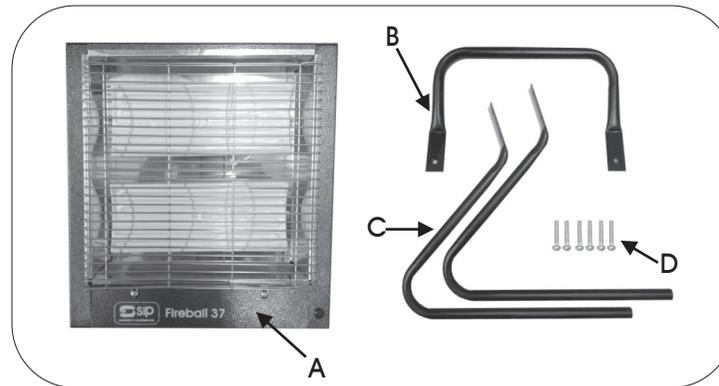
This guarantee does not cover consumables such as elements, etc.

In the unlikely event of warranty claims, contact your distributor as soon as possible. Proof of purchase will be required before any warranty can be honoured.



Note: Proof of purchase will be required before any warranty can be honoured.

CONTENTS & ACCESSORIES

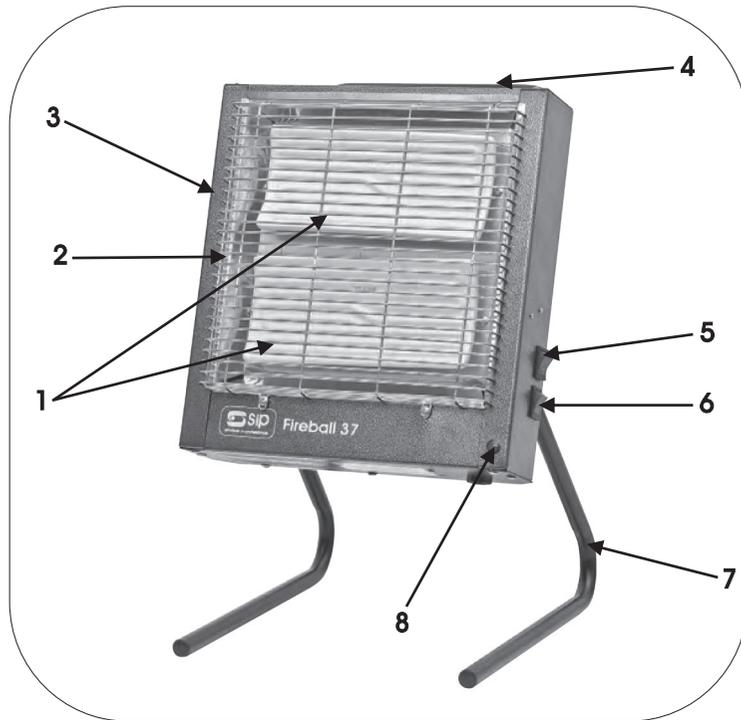


A	Ceramic infrared heater
B	Handle
C	Leg stand
D	Fixing screws



Note: If any of the above are missing or damaged, contact your distributor immediately.

GETTING TO KNOW YOUR HEATER



1.	Heating element/s	5.	Upper element select switch
2.	Safety guard	6.	Lower element select switch
3.	Heater body	7.	Leg stand
4.	Handle	8.	Power on light

ASSEMBLY INSTRUCTIONS

- Carefully place the heater upside down onto a soft surface, so you can access the screw holes more easily (Fig.2).



Fig. 1



Fig. 2

- Locate two of the fixing screws & one leg stand. Screw them into position, repeat for the opposite leg stand (Fig.2).

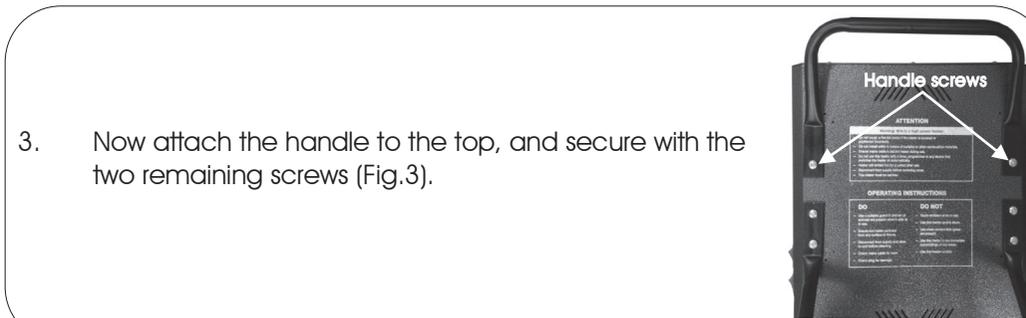


Fig. 3

- Now attach the handle to the top, and secure with the two remaining screws (Fig.3).



Fig. 4

- The heater is now fully assembled and ready for use (Fig.4).