

Thank you for purchasing a BN Thermic product. Manufactured to a high standard this product will, if used according to these instructions and properly maintained, give you years of trouble free performance. Please ensure instructions remain with your customer for their reference.



**REGISTER:** PLEASE REGISTER THIS PRODUCT ONLINE TO ACTIVATE YOUR GUARANTEE AT  
[www.bnthermic.co.uk](http://www.bnthermic.co.uk)



**IMPORTANT:** PLEASE READ THESE INSTRUCTIONS, NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS, AND CAUTIONS. USE THIS PRODUCT CORRECTLY, AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE AND/OR PERSONAL INJURY AND WILL INVALIDATE THE WARRANTY.

## 1. SAFETY INSTRUCTIONS

### 1.1 ELECTRICAL SAFETY

- ☐ **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. If in any doubt consult a qualified electrician. You must also read and understand the following instructions concerning electrical safety.
- 1.1.1 The Health & Safety at Work Act 1974 makes owners of electrical appliances responsible for the safe condition of those appliances and the safety of the appliance operators. If in any doubt about electrical safety, contact a qualified electrician.
- 1.1.2 Ensure that the insulation of all the cables on the appliance is safe before connecting it to the power supply.
- 1.1.3 Ensure that the cables are always protected against short circuit and overload.
- 1.1.4 Regularly inspect the power supply cables and plugs etc. for wear or damage and check all connections to ensure that none are loose.
- 1.1.5 Important: Ensure that the voltage marked on the appliance matches the power supply to be used and that a correctly rated fuse is fitted.
- 1.1.6 Installation should always be carried out by a qualified electrician in accordance with current electrical regulation, protected by a suitably rated isolator and fuse or mcb.
- 1.1.7 DO NOT use worn or damaged cables, plugs or connectors. Immediately have any faulty item repaired or replaced by a qualified electrician.
- 1.1.8 We do not recommend the use an extension cord with this product.

### 1.2 GENERAL SAFETY INSTRUCTIONS

- ✓ Remove all packaging and store it away from children, check the package and heater for visible damage or tampering.
- ✓ Familiarise yourself with the applications and limitations of the heater.
- ✓ Ensure the heater is in good order and condition both physically and electrically before use. If in any doubt do not use the unit and contact an electrician.
- ✓ Only use recommended attachments and parts. To use unauthorised parts may be dangerous and will invalidate your warranty.
- ✓ Disconnect from mains and allow to cool before attempting any cleaning.
- X **DO NOT** use in hazardous areas.
- X **DO NOT** cover the heater or restrict free circulation of air around it.
- X **DO NOT** allow any curtains or similar materials to get within 300mm of the top or front of the heater.
- X **DO NOT** expose to water.
- X **DO NOT** locate the heater below the power outlet.
- X **DO NOT** install this heater against combustible low-density fibre board surfaces.
- X **DO NOT** disassemble the heater for any reason. This heater must be checked by qualified personnel only.
- X **DO NOT** use this heater to perform a task for which it has not been designed.
- X **DO NOT** use this heater outdoors.
- ☐ **WARNING!** Ensure there is no possibility of inflammable materials coming into contact with the heater.
- ☐ **WARNING!** Must be used with a suitable thermostat.

## 2. INTRODUCTION & SPECIFICATION

This heater produces a totally dry heat, no condensation, no gas, no fumes and no smell. It reaches maximum heat output within a few minutes of being turned on. The heater is designed to be mounted at floor level. Typical application is for site huts, room or office heating where 110V is available.

Model	LC110
Power	750W
Input supply	110V 50/60Hz 6.8A
Dimensions (W x H x D)	1206 x 148 x 62mm
Floor Bracket Product Code (Pair)	PHF



### 3. MOUNTING / INSTALLATION

- ❑ **IMPORTANT!** Ensure that the mounting surface is capable of supporting the weight of the heater.
- ❑ **IMPORTANT!** The heater should only be mounted horizontally.

#### 3.1 ELECTRICAL CONNECTION

- ❑ **IMPORTANT!** Ensure you have read the Safety instructions and you are a suitably qualified electrician before continuing.
- ❑ **IMPORTANT!** This Heater must only be connected to a 110V supply.
- ❑ **IMPORTANT!** The voltage marked on the heater must correspond to the supply voltage.
- ❑ **IMPORTANT!** To comply with the I.E.E. Wiring Regulations, the appliance must be earthed; the supply circuit must be adequate for the input of the appliance, and the circuit protected by a suitable fuse. If the heater is to be connected to a fixed electricity supply, a suitable termination must be provided adjacent to the final position of the appliance. In this instance, such a termination must be a double pole switch with a contact separation of at least 3mm in all poles.

**You may wish to mount the heater in position first if so, read section 3.2 Heater Mounting**

- 3.1.1 The terminal connection block is located under the cover on the left hand end of the heater.
- 3.1.2 When removing the cover remove the earth cable that is connected to the right hand end of the heater by carefully pulling off the spade connector. Remember to reconnect this earth wire when replacing the cover.
- 3.1.3 20mm Knockouts are provided both ends of the heater.
- 3.1.4 3 Core mains cable may be run along the bottom on the inside of the heater as long as it is suitable for 80°C temperatures. This can enable cable entry from the right hand side should you wish or when you may want to daisy chain the heaters. Please ensure you do not exceed the total loading of the mains cable.
- 3.1.5 Connect the Earth wire normally GREEN/YELLOW to the earth terminal marked "E".  
Connect the Live wire normally BROWN to the live terminal marked "L".  
Connect the Neutral wire normally BLUE neutral wire to the neutral terminal marked "N".
- 3.1.6 After wiring, check that there are no bare wires, that all wires have been correctly connected and then replace the electrical cover ensuring you reconnect the earth wire on the right hand end. Screw the cover in place.

#### 3.2 HEATER MOUNTING.

- 3.2.1 The Heater must be mounted horizontally using 4 screws (not supplied).
- 3.2.2 The mounting holes are behind the front cover. Please remember to remove the earth cable and then reconnect it when taking on and off the cover.
- 3.2.3 Before drilling any holes ensure there are no wires or pipes in the area you are fixing the heater.
- 3.2.4 After tightening the 4 screws loosen each by one half a turn to allow for expansion of the metal case.

#### 3.3 FLOOR MOUNTING (using PHF brackets)

- 3.3.1 Screw the brackets to the floor ensuring that they have been set at the correct pitch to line up with the mounting holes in the back of the heater.
- 3.3.2 The mounting holes are behind the front cover. Please remember to remove the earth cable and then reconnect it when taking on and off the cover.
- 3.3.3 Using the screws supplied attach the heater to the brackets set level and secure in place.
- 3.3.4 After tightening the 4 screws loosen each by one quarter of a turn to allow for expansion of the metal case.

### 4. OPERATION

When energised the heater will provide its maximum output within a few minutes. Should the unit register an abnormal rise in temperature the over temperature safety devices will shut the heater down. In these circumstances isolate the heater and ensure that there is no obstruction to the air inlet or outlet. If the over temperature safety device operates repeatedly isolate the heater and consult a qualified electrician. Must be used with a suitable thermostat.

### 5. MAINTENANCE

BN Thermic heaters are manufactured, assembled and tested in the UK and are non-user serviceable. They are designed to operate for many years, problem free. Maintenance is limited to the keeping of both inlet and exhaust areas free from any accumulation of dust and other foreign materials. This is especially important immediately before a heating season. Any dust build-up can be loosened with a brush and a vacuum cleaner applied to the airways to ensure complete removal of dust materials. An unusual odour may be noted on the initial turn-on period as any dust particles may have been disturbed and will be burnt off from the element. Note: Before examining or carrying out any maintenance ensure the heater has cooled down and is disconnected from the mains supply.



#### WEEE REGULATIONS:

This appliance bears the symbol of the crossed waste bin. This indicates that, at the end of its useful life, it must not be disposed of as domestic waste, but must be taken to a collection centre for waste electrical and electronic equipment. It is the user's responsibility to dispose of this appliance through the appropriate channels. Failure to do so may incur penalties established by laws governing waste disposal.

**NOTE:** It is our policy to continually improve products and as such we reserve the right to alter data, specifications and component parts without prior notice.

**IMPORTANT:** No liability is accepted for incorrect use of this product.

**WARRANTY:** Your BN Thermic product is guaranteed for one year from date of purchase. We will repair or replace at our discretion any part found to be defective. We cannot assume any consequential liability. This guarantee in no way prejudices your rights under common law and is offered as an addition to consumer liability rights.

**REGISTER:** Activate your warranty by registering online at [www.bnthermic.co.uk](http://www.bnthermic.co.uk) and retain this installation data for future reference.

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