



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.



# **REGISTER**: PLEASE REGISTER THIS PRODUCT ONLINE TO ACTIVATE YOUR GUARANTEE AT 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.

- 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.
- Installation should always be carried out by a qualified electrician or a competent person in accordance with current electrical regulation.
- Ensure that the insulation of all the cables on the appliance is undamaged and safe, before connecting it to the power supply.
- Ensure that the cables are always protected against short circuit and overload.
- Regularly inspect the power supply cables and plugs etc. for wear or damage and check all connections to ensure that none are loose.
- Important: Ensure that the voltage marked on the appliance matches the power supply to be used and that a correctly rated fuse is fitted.
- DO NOT use worn or damaged cables, plugs or connectors. Immediately have any faulty item repaired or replaced by a qualified electrician.
- The unit should be protected by a suitably rated isolator and fuse or MCB.
- This heater is IP20 rated and is suitable for indoor or under cover use only.
- Do not attach this heater to an extension cord it must be hard wired in position.

#### 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 your supplier.
- Only use recommended attachments and parts. To use unauthorised parts may be dangerous and will invalidate your warranty.
- ✓ Keep tools and other items away from the heater when it is in use.
- ✓ Keep children and unauthorised persons away from the heater, as it gets hot.
- Disconnect from mains and allow to cool before attempting any cleaning or maintenance.
- X **DO NOT** use in areas where hazardous gases or dusts may be present.
- X **DO NOT** locate the heater directly below the power outlet.
- 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.
- WARNING! This heater is not equipped with a built in device to control the room temperature. Do not use this heater in a small room if it is occupied by people not capable of leaving the room on their own, unless constant supervision is provided.
- WARNING! Ensure you observe the safety distances and mounting heights and there is no possibility of inflammable materials coming into contact.



## 2. INTRODUCTION & SPECIFICATION

This heater produces a totally dry heat, no condensation, no gas, no fumes. It reaches maximum heat output within a minute from being turned on. It is quick and easy to install reducing installation costs. Used with the CX range of controllers it provides low / high heat or fan only settings. Any heaters from the SystemX range may be connected together and controlled

by a single wall controller

by a single wall controller.	
Model	XC-60
Power	6000W
Input supply	220-240V
Dimensions (W x D x H)	575 x 592 x 152mm
Weight	13kg
Recommended Mounting Height	2.4 - 3.0m
Safety Distance from Heater	1.5m
Controller Model Numbers	CX1, CX2, CX3 or CX6





CX1 Wall Controller

CX3 Wall Controller



## 3. MOUNTING INSTALLATION

#### 3.1 CEILING MOUNTING

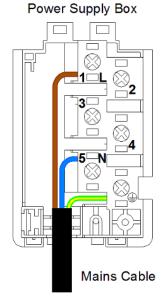
The heater is intended for installation in a suspended ceiling mounted within or on the 'tee' bar supports. For optimum results do not fit in ceilings higher than 4m. As air is only introduced through the front of the unit the heater may be sighted anywhere. The air intake and discharge areas must be kept completely clear for a minimum of 1.5m from the front of the heater. In an area using multiple units, heaters should be spread to provide an even heat distribution.

- ☐ IMPORTANT! A minimum clearance of 205mm is needed between the bottom of the false ceiling and the original roof/ceiling to allow installation of the heater.
- ☐ IMPORTANT! DO NOT use plastic type diffusers as these may be damaged by the heat.
- □ IMPORTANT! Ensure that the mounting surface / ceiling supports are capable of taking the additional weight of the heater there are 4 eye hooks supplied with the heater that should be used if additional support of the heater is required.

When using the diffuser the four Z brackets provided should be attached to the side of the heater to enable the heater to be supported by the 'tee' bar and immediately above the diffuser.

## 4. ELECTRICAL CONNECTIONS

## 230V SINGLE PHASE - Power Connection



Please make sure you have read the Safety instructions and that you are a suitably qualified electrician before continuing.

Drawings show connections inside the black terminal box on the outside of the heater.

Do NOT use power tools to undo or do up terminal screws in the Power Supply Box.

Please Note: - Specified cable sizes are for typical installations, correction factors may need to be used when determining actual cable sizes.

#### **Standard Connection**

BY THE GUARANTEE

Use 4mm² 3 Core Mains Cable (see note above).

Connect Brown wire - Terminal 1 or L.

Connect Blue wire - Terminal 5 or N.

Connect Green / Yellow wire – Terminal E or

PLEASE CHECK ALL CONNECTIONS BEFORE TURNING ON AS INCORRECT WIRING IS NOT COVERED

Once the mains cable has been connected the heater will not work until a suitable controller is attached to the heater using a CAT5 network cable. We recommend you use our cables as they have been tested for compatibility between all the controllers and the various different heater models. Instructions on connecting controllers is found within the controller packaging.

## 5. MAINTENANCE

Note: Before examining or carrying out any maintenance ensure the heater has cooled down and is disconnected from the mains supply.

The heaters are intended to operate for many years, problem free. All moving parts are factory lubricated and therefore should require no service. Maintenance is limited to keeping both the inlet and outlet areas free from any accumulation of dust or any other foreign materials. This is especially important immediately before the heating season. Any dust build up can be loosened using a brush and a vacuum cleaner applied to the airways to ensure completed removal of any dust. When the heater is first turned on after cleaning an unusual odour may be noted this is due to the dust particles which inevitably will be disturbed and will be burnt off from the heating element.

If in any doubt always consult a qualified electrician for advice.

## 6. AUTO CUT OUT / FUSE REPLACEMENT

Each heater element is fitted with a semi-automatic safety device to prevent overheating. The device will isolate the heating element while the fan continues to operate. Should this occur, disconnect the heater from the mains supply for a minimum of 5 minutes, check and remove any foreign materials around the airways. If the element fails to operate or the safety cut out operates again, turn off the heater and contact a qualified electrician. This unit is fused and the fuse holder is located on the inside of the heater near the internal wire connection boxes. Should the fuse fail, ensure the heater has cooled down and is disconnected from the mains supply before replacing with another 12.5A fuse. If this replacement fuse fails seek professional help.

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.



This product conforms to EU Directive 2002/96/EC.

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.

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 and retain this installation data for future reference.

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