

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



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, 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. 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 in accordance with current IEE electrical regulations.
- 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 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 or connectors. Immediately have any faulty item repaired or replaced by a qualified electrician.
- A suitable local isolating switch must be provided in the electrical supply circuit as close as possible to the air curtain with at least 3mm clearance on each pole.
- This air curtain is IP20 rated and is suitable for indoor or under cover use only.
- Do not attach this air curtain to an extension cord it must always be hard wired in position.

1.2 GENERAL SAFETY INSTRUCTIONS

- ✓ Remove all packaging and store it away from children, check the package and air curtain for visible damage or tampering.
- ✓ Familiarise yourself with the applications and limitations of the air curtain.
- ✓ Ensure the air curtain 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 air curtain when it is in use.
- ✓ Keep children and unauthorised persons away from the air curtain, 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 that may be present.
- X **DO NOT** locate the air curtain directly below the power outlet.
- X **DO NOT** disassemble the air curtain for any reason. This air curtain must be checked by qualified personnel only.
- X **DO NOT** use this air curtain to perform a task for which it has not been designed.
- **WARNING!** This air curtain is not equipped with a built in device to control the room temperature. Do not use this air curtain 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 air curtain 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.

Model	XAD-90
Power	9000W
Input supply	220-240V
Dimensions (W x D x H)	1105 x 108 x 225mm
Weight	13.5kg
Recommended Mounting Height	2.5 - 3.5M
Safety Distance from Air curtain	1.5M
Controller Model Numbers	CX1, CX2, CX3 or CX6



CX1 Controller



CX2 Controller



CX6 Controller

3. LOCATION OF AIR CURTAIN

When mounting above a doorway, the air curtain can be wall or ceiling mounted at a recommended height of 2.5 – 3.5m above floor level and a minimum of 300mm from adjacent walls.

4. MOUNTING INSTALLATION

- ❑ **IMPORTANT!** DO NOT mount air curtain directly below the socket outlet.
- ❑ **IMPORTANT!** Ensure that the mounting surface / ceiling supports are capable of taking the weight of the air curtain.
- ❑ **IMPORTANT!** Do not allow any object to come closer than 1.5m to the air curtain outlet.
- ❑ **IMPORTANT!** Always mount the air curtain horizontal mounting at any other angle will reduce the air curtain's life and invalidate the guarantee.
- ❑ **IMPORTANT!** The air intake and discharge areas must be kept completely clear for a minimum of 1.5m from the front of the air curtain.

4.1 MOUNTING KIT

The mounting kit supplied with each heater consists of the following items.

1 x Backbone / spacer (approximately the same length as the heater).

2 x Backbone right angled brackets.

2 x Small wall mounting brackets, 2 x Large hanging brackets, 2 x Plastic domes

4 x M2.9 Self Tapping Screws, 6 x M5 x 12mm long pozi drive screws, 2 x M5 Lock washers 4 x M4 Nuts and 4 x M4 Washers.

4.2 WALL MOUNTING ABOVE A DOORWAY

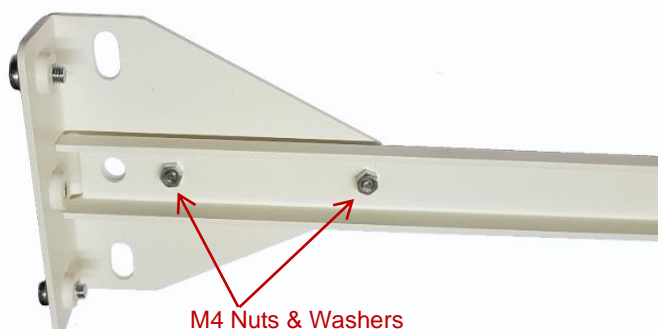
Attach the two small wall mounting brackets to the heater using the plastic domes and M2.9 Screws. Make sure both open slots are facing downwards and the brackets face towards the back of the heater (see Pic 1).

Attach the 2 backbone right angled brackets to the backbone using the M4 nuts and washers (see Pic 2)

Securely attach the backbone to the wall using suitable fixings (not supplied) The backbone may be removed once the two end brackets have been securely mounted in position. It is only required to obtain the correct spacing of the Backbone right angled brackets. Partially insert M5 screws into the outer two holes in each end of the bracket. Make sure the screw goes all the way through and the thread is just showing the other side (see Pic 2). The heater with its two end brackets should now be slotted onto the fixing bracket (see Pic 3). Now tighten up the four end screws and add an additional M5 centre screw and lock washer into the centre hole at each end of the fixing bracket (see Pic 4). **UNDER NO CIRCUMSTANCES MUST THE HEATER BE TURNED ON IF THESE TWO CENTRE SCREWS AND LOCK WASHERS ARE NOT PRESENT OR TIGHTENED UP.**



Pic 1



M4 Nuts & Washers

Pic 2



Pic 3



Pic 4



Pic 5



Pic 6

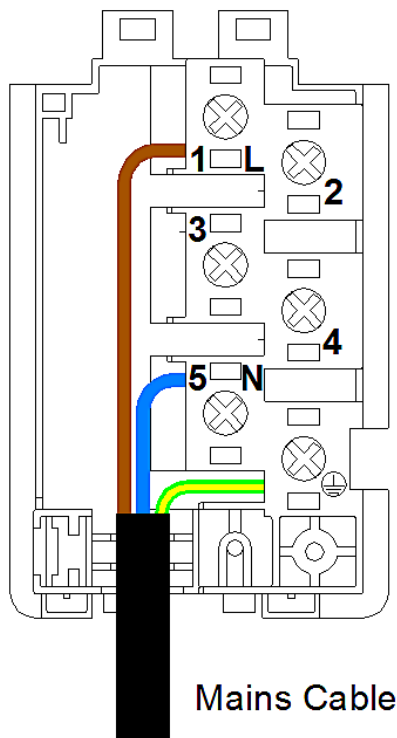
4.3 CEILING MOUNTING ABOVE A DOORWAY USING SUPPLIED BRACKETS OR DROP RODS (not supplied)

You can either use M8 drop rods in the two threaded holes on the top of the heater (drop rods not supplied) or mount directly to the ceiling using the supplied brackets. If mounting using the supplied brackets use the method (section 4.2) with the exception that you use the Large Side Brackets and they must face upwards (see Pic 5). Do not switch on unless the 2 x M5 centre screws and lock washers are fitted to the side brackets and tightened. (see Pic 6)

5. ELECTRICAL CONNECTIONS

230V SINGLE PHASE

Power Supply Box



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

Standard Connection and Use

Use 6mm² 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 ⊕

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.

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

6. MAINTENANCE

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

The air curtains 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 air curtain 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.

7. AUTO CUT OUT / FUSE REPLACEMENT

This air curtain 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 air curtain from the mains supply for a minimum of 5 minutes, check and remove any foreign materials around the airways. If the air curtain fails to operate or the safety cut out operates again, turn off the air curtain and contact a qualified electrician.

The Heater is protected by a fuse. The fuse holder is located on the front face of the unit. Should the fuse fail, replace with another 3.15A 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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