

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!** 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 and has an internal thermostat. It is quick and easy to install reducing installation costs. Used with the CS-7 controller it can provide low / high heat or fan only settings.

Model	SMH-30T
Power	3000W
Input supply	220-240V
Dimensions (W x D x H)	575 x 392 x 152mm
Weight	8kg
Recommended Mounting Height	2.5 - 3.0M
Safety Distance from Heater	1.5M
Optional Controller Model Number	CS-7



CS-7 Controller
 (Optional Extra)

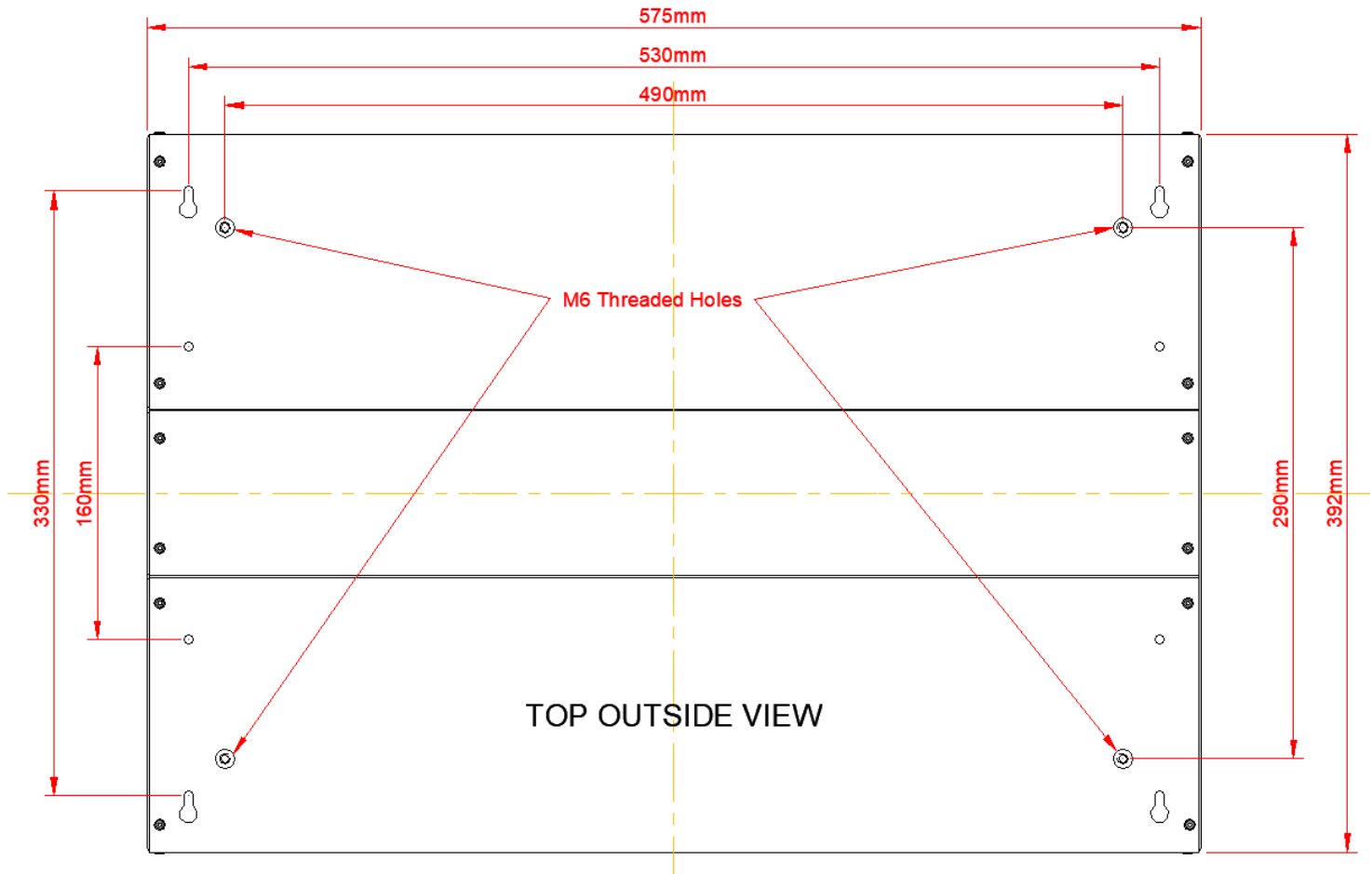
3. MOUNTING INSTALLATION

3.1 CEILING MOUNTING

❑ **IMPORTANT!** Ensure that the ceiling is capable of taking the weight of the heater.

For optimum results do not fit in ceilings higher than 3m. Air is taken in through the large grille and discharged through the smaller grille. 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.

Remove the front grille / cover by undoing the 8 screws securing it in place (You don't need to remove this cover if using M6 drop rods or hanging hooks.)



Using the drawing above mark out the holes required to secure the heater case to the ceiling. Use the 4 x keyhole slots and an additional 2 holes (at least one each side) once installed to lock the heater in place.

These additional 2 holes **MUST** be used to stop the possibility of the case sliding off its Keyhole fixings.

Secure to the ceiling using suitable fixings (not supplied). It will be easier to do some of the electrical connections before finally securing to the ceiling.

3.2 DROP ROD MOUNTING

The heater has 4 x M6 threaded holes and 4 x M10 keyhole holes suitable for using M6 or M10 drop rod studding. If using M6 threaded holes fully screw the studding into each hole and use a lock nut to stop it rotating and coming out. If using M10 studding a nut must be placed and tightened above and below the case on each of the 4 studs to hold the case securely to the M10 drop rods (Removal of the grille / guard will be needed so you can add an M10 Nut inside the heater). Use the diagram above to determine the spacing of the drop rods. If you use drop rods you should be able to gain access to all the electrical connections after you mount the heater.

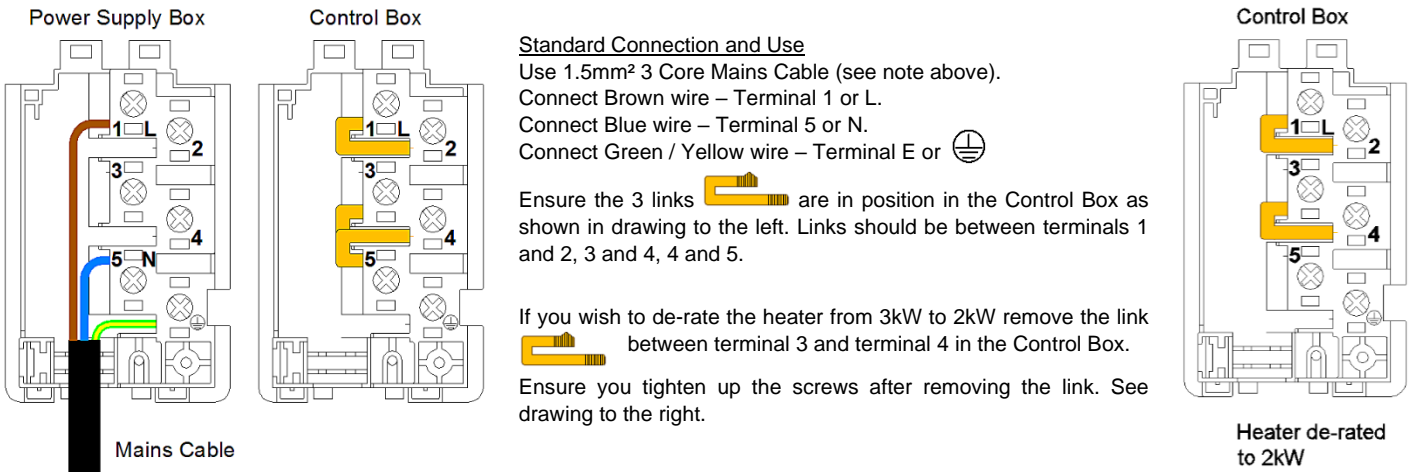
3.3 CABLE SUSPENSION

The heater has 4 x M6 threaded holes that can be utilised to allow the heater to be hung from suitable cables. A pack of 4 x M6 eye hooks is available as an optional extra for use if cable mounting (Part No. HSK)

4. ELECTRICAL CONNECTIONS

4.1 230V SINGLE PHASE – Without controls.

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 sizes are for typical installations, correction factors may need to be used when determining actual cable sizes.



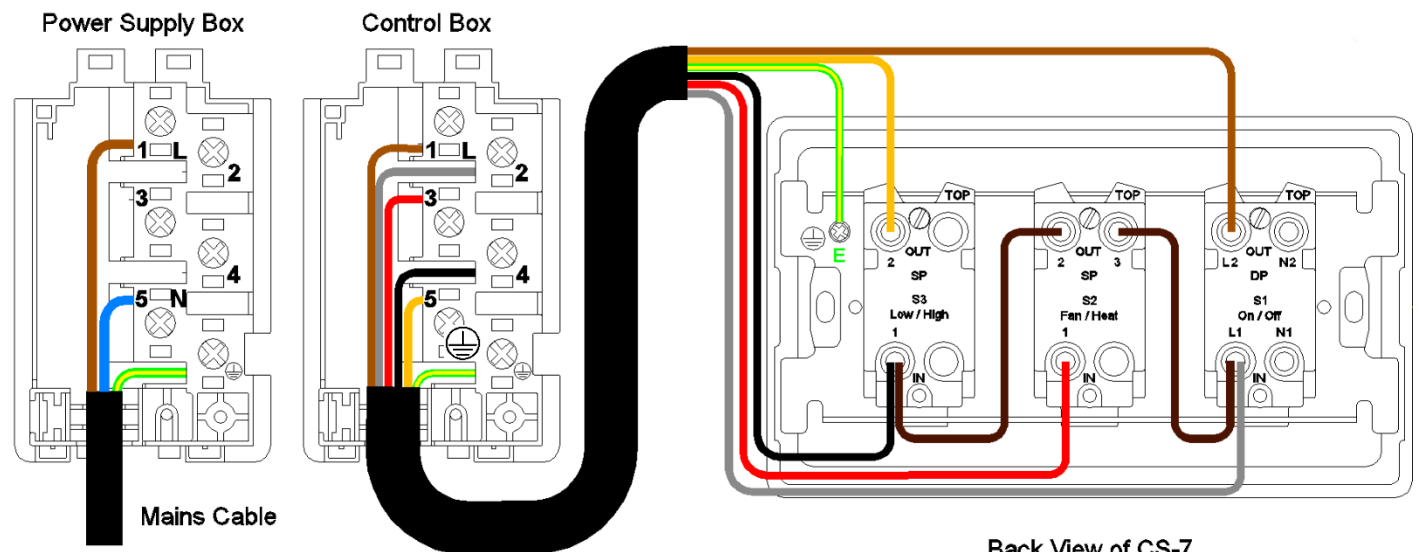
PLEASE CHECK ALL CONNECTIONS BEFORE TURNING ON AS INCORRECT WIRING IS NOT COVERED BY THE GUARANTEE

4.2 230V SINGLE PHASE – With CS-7 Controller (CS-7 Controller provides on / off / high heat / low heat / fan only settings).

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 and the inside of the CS-7 Controller.

Do NOT use power tools to undo or do up terminal screws.

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



Standard Connection using CS-7 Controller

Use 1.5mm² 3 Core Mains Cable (see note above).

Use 1.5mm² 6 Core Cable to connect the heater to the CS-7 Controller (see note above).

Remove any links that may be present in heater control box between terminals 1,2,3,4 or 5.

Mains Cable

Connect Brown wire – Terminal L.

Connect Blue wire – Terminal N.

Connect Green / Yellow wire – Terminal E or .

Heater to CS-7 Controller Cable – (Colours for reference only)

Move the Dark Brown link cable from the centre switch terminal 1 to the centre switch terminal 3 (shown above by dark brown wire).

Connect Brown wire – Terminal 1 or L of heater and Top Terminal L2 on right DP Switch of CS-7.

Connect Grey wire – Terminal 2 of heater and Terminal L1 on right DP Switch of CS-7.

Connect Red wire – Terminal 3 of heater and Centre Switch Terminal 1 of CS-7.

Connect Black wire – Terminal 4 of heater and Terminal 1 on Left SP Switch of CS-7.

Connect Yellow wire – Terminal 5 of heater and Top Terminal 2 on Left SP Switch of CS-7.

Connect Green / Yellow wire – Terminal E or of heater and earth connection on CS-7.

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

5. CHANGE MODE OF OPERATION

The heater has two modes of operation to suit different applications.

These two modes are selected by a switch on top of the heater next to the thermostat control knob.

Mode I

With the switch on the top of the heater in the "I" position both the heater elements and the fan turn on and off with the thermostat. This mode is best used when using the heater as a space heater but may give long periods of on / off switching when the heater is used close to an external door in constant use or in confined spaces.

Mode II

With the switch on the top of the heater in the "II" position the fan runs continuously and only the heating elements go on and off with the thermostat.

If you use this heater close to an external door in constant use or in a confined space, we recommend you use this mode of operation as it will tend to improve the response time of the thermostat.



6. CONTROL

Standard temperature control is by adjusting the electronic thermostat knob located between the slot on the top of the heater.

Twist clockwise to increase temperature set point

Twist Anti-clockwise to decrease temperature set point.



7. WINDOW OPENING

If required there is a Window Opening feature that turns the heater off for a 2 minute period should there be a sudden drop in temperature due to a window or door being opened. This feature is turned off by default but can be activated by the following method.

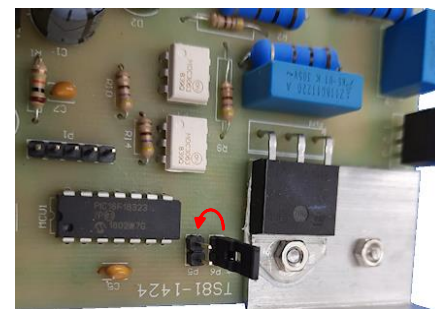
Ensure the power is turned off and isolated before starting.

Remove the front cover to access the electronic thermostat circuit board.

Locate and move the jumper from P6 to P5 as per picture to the right.

Replace the front cover ensuring all the screws are replaced.

Window opening is now active.



8. 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.

9. AUTO CUT OUT

This heater 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 heater fails to operate or the safety cut out operates again, turn off the heater and contact a qualified electrician.



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 and retain this installation data for future reference.

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