

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](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.

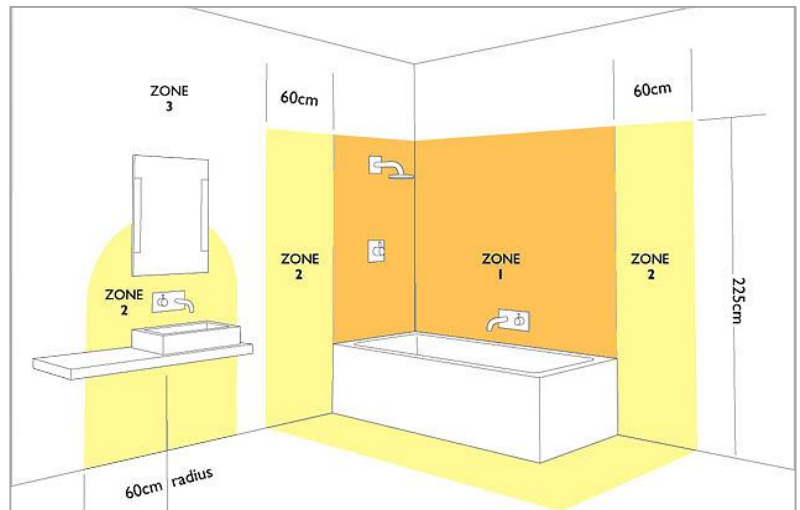
- 1.1.1 The Health & Safety at Work Act 1974 makes owners of electrical appliances responsible for the safe condition of those appliances and the safety of the appliance operators. If in any doubt about electrical safety, contact a qualified electrician.
- 1.1.2 Ensure that the insulation of all the 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 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.
- 1.1.5 This Mirror must not be installed in a Zone1 area of any room (see Zone drawing below).

## 2. INSTALLATION

THESE INSTRUCTIONS SHOULD BE FOLLOWED TOGETHER WITH MIRROR MANUFACTURER'S INSTALLATION INSTRUCTIONS

This demister is designed to be used safely in Zone 2 or 3 of a wet room (see drawing to the right).

- 2.1.1 The demister is best connected to a switched lighting circuit, so that it is activated when the light is turned on.
- 2.1.2 The demister can also be wired to a separate On / Off switch but this switch must be suitable for the area in which it is to be used and placed in a position that it cannot be touched by a person standing or sitting in the bath / shower.
- 2.1.2 Stationary appliances without a means of all pole disconnection from the supply must have a disconnect device incorporated into the fixed wiring circuit.
- 2.1.3 The wiring regulations also require a double pole RCD to be installed for all fixed current using appliances in zones 2 & 3 in a bathroom.
- 2.1.4 The wires in the mains cable are double insulated and coloured in accordance with the following code:-  
**BROWN:- LIVE BLUE:- NEUTRAL**
- 2.1.5 **Wiring must be covered and inaccessible in compliance with relevant safety standards.**
- 2.1.6 All metal frames surrounding the mirror **must** be earthed and comply with current wiring regulations.
- 2.1.7 If the mirror has been supplied with a metal foil anti-shatter film then this film **must** be connected to earth due to a possibility of a small capacitance effect.
- 2.1.8 The demister is supplied with 1.0m of double insulated cable and cannot be replaced, when a longer cable is required, a suitable junction box and the correct cable must be used.



**Back View**

To be placed facing wall



**Self Adhesive Side**

To be placed on the back of the mirror

### 3. MULTIPLE DEMISTER PADS

Several pads may be fitted to a mirror to cover the whole area

- 3.1.1 Never cut any pad always use pads that are slightly smaller than the mirror.
- 3.1.2 If several pads are fitted to a single mirror they should be wired in parallel.
- 3.1.3 Pads must not overlap as this could cause hotspots and possible damage to the mirror.
- 3.1.4 Care must be taken to ensure that the power supply is sufficient to take the total load of all the pads.

### 4. IMPORTANT POINTS TO NOTE WHEN INSTALLING

**TO AVOID DAMAGE TO THE MIRROR, AND IN COMMON WITH NORMAL PRACTICE, THE FOLLOWING POINTS MUST BE ADHERED TO:**

- 4.1.1 Ensure wall is firm, flat, level and dry.
- 4.1.2 If the mirror has any holes or cut-outs the pad must not be located near the hole or cut-outs as the mirror could crack.
- 4.1.3 Mirror must be flat across its entire surface at all times to prevent it cracking.
- 4.1.4 Screws must not be over-tightened and must be adjusted evenly to ensure mirror is flat.
- 4.1.5 Never rest anything across the mirror surface which will prevent the heat dissipating fully.
- 4.1.6 We don't recommend mounting behind irregular shaped mirrors.

### 5. ATTACHING TO MIRROR

The Mirror Demister should be mounted directly onto the mirror back.

- 5.1.1 Cut out a recess in the wall to accommodate the terminal moulding so the mirror will sit flush to the wall.
- 5.1.2 Mark the back of mirror to indicate where the heater is to be fitted.
- 5.1.3 Peel the protective release paper from the back of the heater.
- 5.1.4 Position one edge of the Mirror Demister onto the back of the mirror whilst holding the opposite edge away from the mirror.
- 5.1.5 Apply pressure evenly over the mirror heater surface as you gradually lower it onto the mirror.
- 5.1.6 Continue until it is completely flat on the mirror back with no air bubbles.
- 5.1.7 Fix mirror assembly to wall ensuring wall recess lines up with the terminal moulding.
- 5.1.8 If the heated mirror assembly is to be bonded to the wall, the adhesive must be solvent and acrylic free and should be applied over the complete area including the demister pad to ensure that the mirror is securely held.

**The Mirror Demister must not be cut or pierced as this will damage the insulation and render it unsafe.**

**Once installed the mirror demister must not be accessible.**

Please be aware that as the ambient room temperature rises, so will the surface temperature of the mirror.

### 6. SPECIFICATION

Voltage:- 230V    Nominal power rating:- 200W/m<sup>2</sup>    Double Insulated    IP44 Rated

Model	Wattage	Dimensions
MD3-29	16W	300 x 290mm
MD3-49	27W	300 x 490mm
MD3-73	40W	300 x 730mm
MD3-97	54W	300 x 970mm
MD3-125	69W	300 x 1250mm
MD3-149	83W	300 x 1490mm
MD5-29	27W	500 x 290mm
MD5-49	46W	500 x 490mm
MD5-73	69W	500 x 730mm

Model	Wattage	Dimensions
MD5-97	92W	500 x 970mm
MD5-125	119W	500 x 1250mm
MD5-149	142W	500 x 1490mm
MD7-29	38W	700 x 290mm
MD7-49	65W	700 x 490mm
MD7-73	98W	700 x 730mm
MD7-97	131W	700 x 970mm
MD7-125	169W	700 x 1250mm
MD7-149	201W	700 x 1490mm

**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 or installation 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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