

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. **Not suitable for use with the DSU3-45 destratification unit.**

## 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.



## 1.2 GENERAL SAFETY INSTRUCTIONS

- ✓ Remove all packaging and store it away from children.
- ✓ Familiarise yourself with the applications and limitations of the fan speed regulator.
- X **DO NOT** use in areas where hazardous gasses or dusts may be present.
- X **DO NOT** disassemble the controller for any reason. This controller must be checked by qualified personnel only.
- X **DO NOT** use this controller to perform a task for which it has not been designed.

## 2. INTRODUCTION & SPECIFICATION

The DSU-2R controller offers variable control of fans up to 2.5A.

**Not suitable for the DSU3-45 destratification unit.**

Suitable for use with our DSU2 and DSU3-40 and DSU3-50 destratification units.

One controller should be used with each DSU2 / DSU3 Fan.

The controller incorporates an ON / OFF switch and is totally variable from 30% to 100%.

Installation is fairly quick and once installed controller is maintenance free.

### Specification

Model	DSU-2R
Input Supply	220-240V 50Hz ac
Maximum Power	575W (2.5A Maximum load)
Dimensions (W x D x H)	124mm x 124mm x 75mm (95mm including knob)
Output Levels	Fully Variable between 30 - 100%
Switch	Single pole, single throw (Do not use this Switch as a way of electrically isolating the fan).
Waterproof Rating	IP65
Weight	0.4kg
Cable Glands	Controller is supplied with 2 x M20 IP65 Cable Glands

## 3. INSTALLATION

### Mechanical Fixing

ISOLATE MAINS SUPPLY BEFORE COMMENCING ANY INSTALLATION WORK. Carefully remove the four screws which secure the front panel of the controller.

If using the supplied cable glands, it may be easier to drill the hole or holes for these before mounting the box to the wall.

It is recommended that the DSU-2R controller should be mounted using the 4 corner holes securely on a solid wall with suitable wall-fixings (not supplied).

## 4. ELECTRICAL CONNECTIONS.

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

Picture to the right show's connections inside the DSU-2R controller.

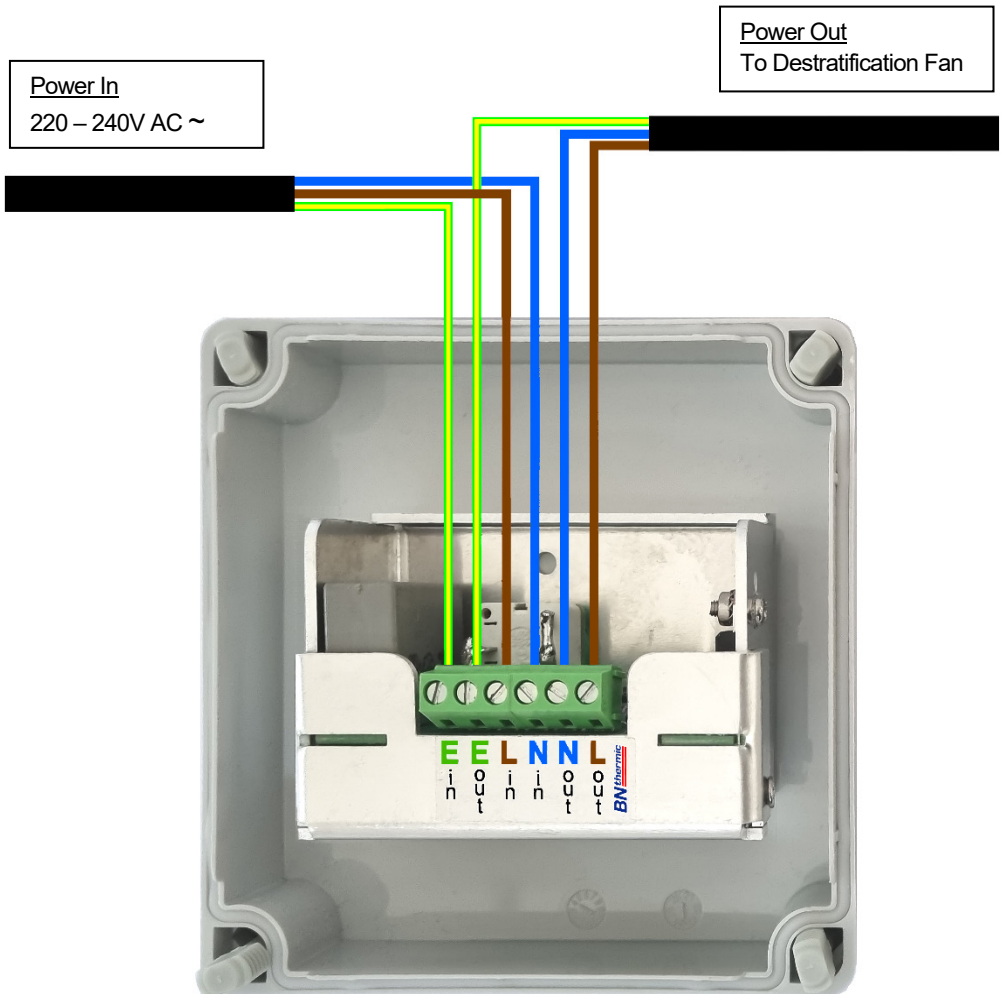
**Do NOT use power tools to undo or do up terminal screws or front cover screws.**

### Wiring

Live, Neutral and Earth are all required.

Use a separate cable gland for the supply cable and one for the load cable.

Connect the cables to the correct terminals as marked below the terminal block on the back of the front cover and shown on the drawing below. Please note:- Terminal block takes a maximum size of 1.5mm<sup>2</sup> cable.



## 5. OPERATION.

To turn the fan on, turn the knob clockwise.

Continue turning the knob clockwise to reduce fan speed from 100% (maximum) to 30% (minimum)

Turn the knob anticlockwise to increase fan speed from 30% (minimum) to 100% (maximum)

Continue turning the knob anticlockwise to turn the fan off.

Do not use the controller as a way of electrically isolating the fan.

If any maintenance is needed to the fan or controller the power supply must be isolated before starting.

**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.*



### 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.

**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

**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.

BN Thermic Ltd,  
34 Stephenson Way,  
Crawley, RH10 1TN  
Tel: +44 (0) 1293 547361  
[sales@bnthermic.co.uk](mailto:sales@bnthermic.co.uk)  
[www.bnthermic.co.uk](http://www.bnthermic.co.uk)