

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.

To make sure that you have selected the correct heater for your application, please read Section 12 on the back page before installation.



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 be 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 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.
- 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 heater is IP20 rated and is suitable for indoor use only.
- **The controls and heaters may be fed from a different source and it is essential that all circuit breakers feeding the heating system are isolated prior to any work being carried out on any of the heaters in the system.**
- **If there are 2 or more units being used with single controls in the system 400v ac may be present in the control boxes due to supplies being taken from different phases.**
- **If you connect the heaters together in a Master / Slave configuration you can only use one RCD (Residual Circuit Device) for all heaters and individual MCB's for each heater.**
- 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

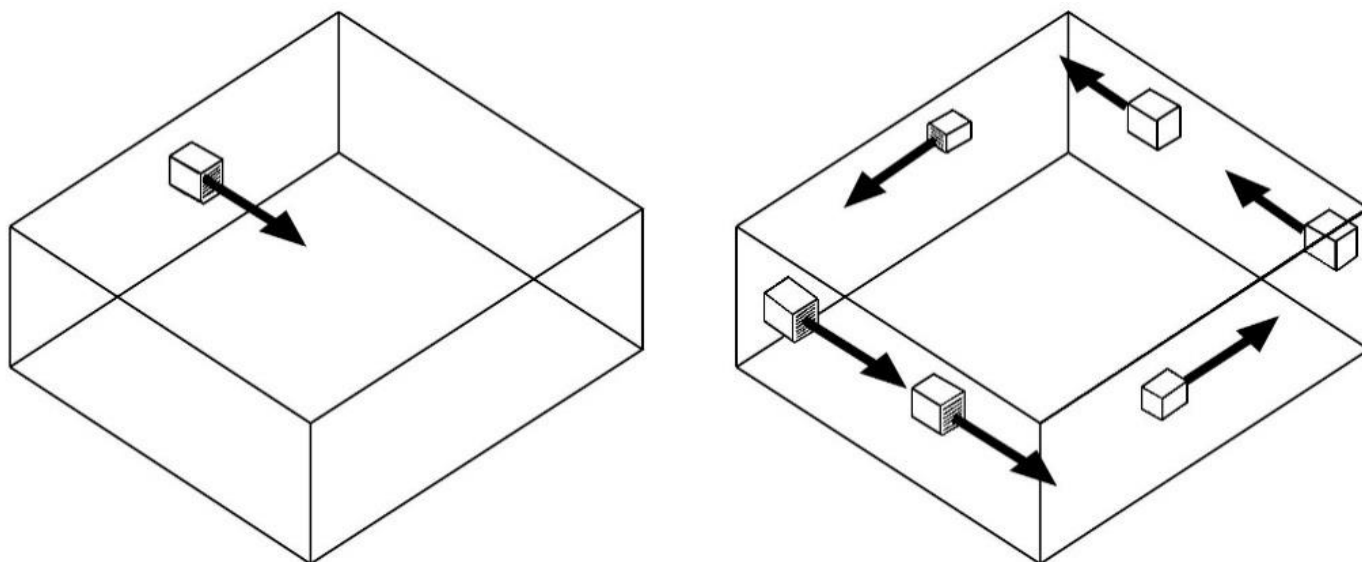
This heater produces a totally dry heat, no condensation, no gas, no fumes. It reaches maximum heat output within a few minutes of being turned on. It is quick and easy to install reducing installation costs. Air temperature can be controlled by the heater's built-in thermostat or alternatively by a variety of remote-mounted thermostats and other control devices. Where required a group of heaters can be interconnected and controlled from a single remote-mounted thermostat. This allows a very easy and cheap way of controlling heating in large or small areas.

Model	Power	Input Supply	Dimensions W x D x H (mm)	Weight	Recommended Mounting Height	Safety Distance from Heater
OUH2-03	3kW	230v ac or 400v 3Ph+N	435 x 405 x 320	18kg	2.4m	2.0m
OUH2-05	5kW	230v ac or 400v 3Ph+N	435 x 405 x 320	18kg	2.4m	2.0m
OUH2-07	7.5kW	230v ac or 400v 3Ph+N	435 x 405 x 320	18kg	2.4m	2.0m
OUH2-10	10kW	400v 3Ph+N	435 x 405 x 320	18.5kg	2.4m	2.0m
OUH2-15	15kW	400v 3Ph+N	565 x 485 x 445	37kg	2.8m	2.0m
OUH2-20	20kW	400v 3Ph+N	565 x 485 x 445	37.5kg	2.8m	2.0m
OUH2-25	25kW	400v 3Ph+N	565 x 485 x 445	38.5kg	2.8m	2.0m

3. MOUNTING INSTALLATION

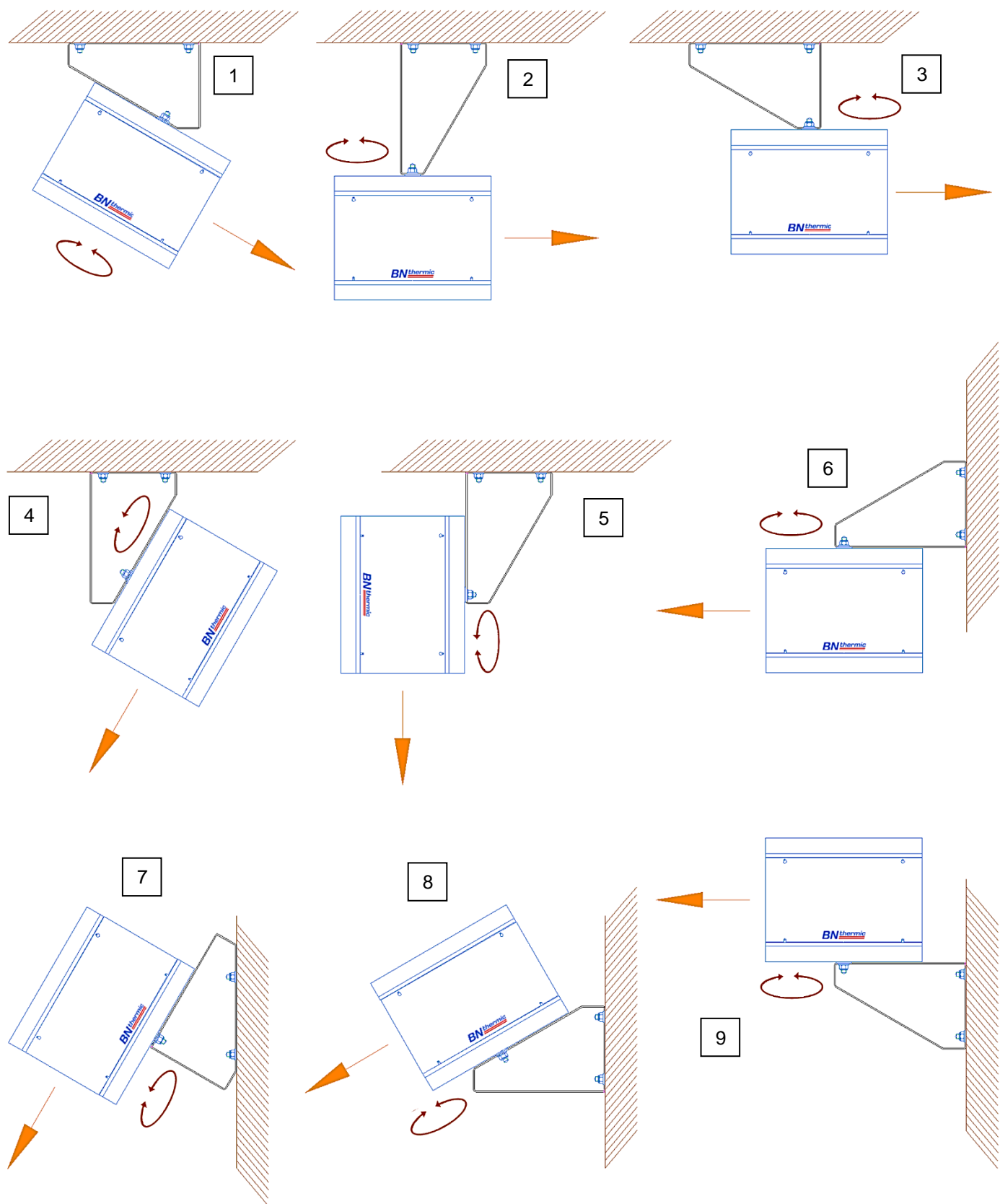
The heater is supplied with a multi-functional mounting bracket and 4 x M8 ring hooks if you wish to hang the heater.

LOCATION - For best results, do not mount higher than 2.4m (small models) and 2.8m (large Models). If you need to exceed this height either mount on the multi-functional bracket so the heater is at an angle facing downwards or use the hanging hooks supplied. Direct air flow away from occupants, posts, and columns, including equipment. Ideally allow the warm air to travel parallel to the outside walls, along the most exposed part of the building, which is normally subjected to the prevailing winds (see pictures at bottom of page).



MULTI-FUNCTIONAL BRACKET - Using the pictures above and to the right decide on the best mounting method to suit your requirements. Fix the bracket to the wall or roof making sure you use suitable bolts for the surface you are fixing the bracket too and ensure it will take the weight of the heater. Place the stud on the heater through the bracket, add the washer and secure in place using the nyloc nut supplied.

HANGING EYE HOOKS – Place the nut onto each supplied eye hook first then fully screw them into the heater, finally tighten the nuts against the heater body to stop them rotating.



If you use the heater in mounting position 7, 8 or 9 you **MUST** remove the 2 side panels turn them around 180° and reinstall them. Would you also please turn around the front guard so our Logo reads correctly. Many Thanks

4. ELECTRICAL CONNECTIONS

The 3kW, 5kW and 7.5kW Heaters can be wired 230v single phase or 400v 3 phase.

All Heaters MUST BE EARTHED.

Due to the heater having "Fan Over Run" circuitry the heater must not be turned ON and OFF using the mains supply isolator. The mains supply isolator should only be used in an emergency or if you need to turn off the heater (once cooled down) for long periods. The heater should be turned off using the thermostat on the back or any other control device. See Section 8 for further information on the fan over run.

On small units there are 4 x 20mm and 1 x 25mm knockouts on the top or bottom of the heater and an additional 4 x 20mm and 1 x 25mm knockouts on the back of the heater. If you require a 32mm hole gently open out a 25mm hole using a taper drill or step drill. Be careful you do not touch the internal electrics when opening up the holes.

On large units there are 3 x 20mm, 1 x 25mm and 1 x 32mm knockouts on the top or bottom of the heater and an additional 3 x 20mm, 1 x 25mm and 1 x 32mm knockouts on the back of the heater.

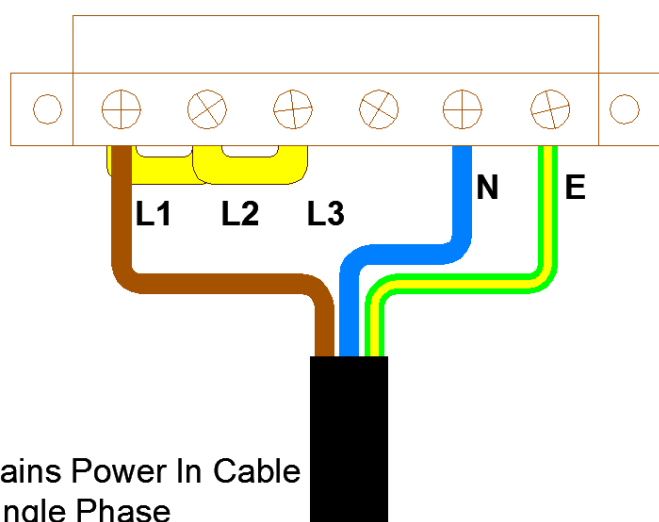
4.1 230V SINGLE PHASE (only suitable for OUH2-03, OUH2-05 or OUH2-07 models)

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

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

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

The 2 link plates that need to link between terminals L1 & L2 + L2 & L3 can be found with this instruction leaflet.



Mains Power In Cable
Single Phase

Not suitable for Heaters above 7.5kW

Cable Sizes

OUH2-03 3kW - Use minimum 1.5mm² 3 Core Mains Cable (see note above).

OUH2-05 5kW - Use 4mm² 3 Core Mains Cable (see note above).

OUH2-07 7.5kW - Use 6mm² 3 Core Mains Cable (see note above).

OUH2-10 10kW and above - **DO NOT WIRE SINGLE PHASE**

Add the 2 Links between terminals L1 & L2 + L2 & L3

Connect Brown / Live Wire – Terminal L1 of Heater

Connect Blue / Neutral Wire – Terminal N of Heater

Connect Green/ Yellow / Earth Wire – Terminal E  of Heater

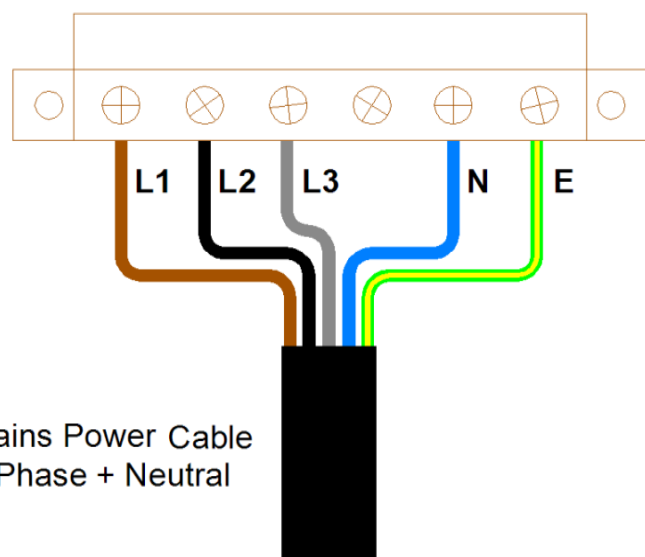
PLEASE CHECK ALL CONNECTIONS BEFORE TURNING ON AS INCORRECT WIRING IS NOT COVERED BY THE GUARANTEE

4.2 400V 3 PHASE

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

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

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



Mains Power Cable
3 Phase + Neutral

Cable Sizes

OUH2-03 3kW - Use minimum 1.5mm² 5 Core Mains Cable (see note above).

OUH2-05 5kW - Use 1.5mm² 5 Core Mains Cable (see note above).

OUH2-07 7.5kW - Use 1.5mm² 5 Core Mains Cable (see note above).

OUH2-10 10kW - Use 2.5mm² 5 Core Mains Cable (see note above).

OUH2-15 15kW - Use 4mm² 5 Core Mains Cable (see note above).

OUH2-20 20kW - Use 4mm² 5 Core Mains Cable (see note above).

OUH2-25 25kW - Use 6mm² 5 Core Mains Cable (see note above).

Connect Brown / Phase 1 Wire – Terminal L1 of Heater

Connect Black / Phase 2 Wire – Terminal L2 of Heater

Connect Grey / Phase 3 Wire – Terminal L3 of Heater

Connect Blue / Neutral Wire – Terminal N of Heater

Connect Green/ Yellow / Earth Wire – Terminal E  of Heater

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

If you don't require any controls AND are not using this heater in a Master / Slave configuration go to section 7 – LINK CONNECTIONS (page 11).

5. ADDING ADDITIONAL CONTROLS.

You may add the following controls to the OUH2 Space Heater all of these controls if connected as shown in the wiring diagrams are protected by the heaters internal 3A fuse.



OUH2-S
Heater Control Switch



FST2-IN
Frost Thermostat



RST2-IN
Thermostat



RST-TP
Tamperproof Thermostat



PROSTAT4
2 Set Point Thermostat



PROTIM-7
7 Day Time Switch



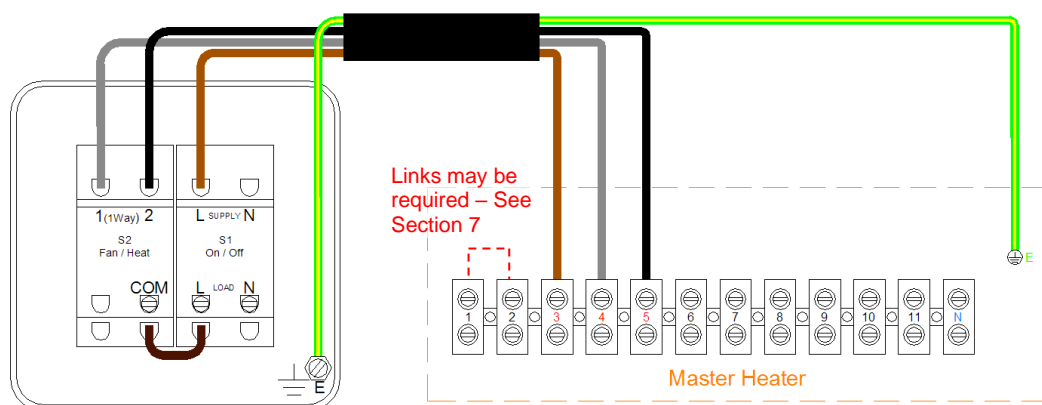
RT16
Digital Thermostat

- **OUH2-S** Heater control switch – Remote way of turning ON/OFF the heater or using it as Fan only in the summer. We recommend this as a minimum control for your heater. This can either be wall mounted or fixed to the back of the heater using knockout and screw holes provided.
- **FST2-IN** Frost thermostat – Overrides all controls including OUH2-S heater control switch “OFF” and turns the heater on regardless of how OUH2-S is set. This is used to protect the heated area against low temperatures that may cause damage or freezing of water etc. If used the thermostat MUST be mounted out of direct air flow of the heater and out of reach of meddling fingers.
- **RST2-IN** Thermostat. Can be used with or without the OUH2-S switch this remote thermostat can be used instead of the internal thermostat, handy when heaters are mounted high or in positions where access to the internal thermostat is not easy. Mount out of direct air flow of any heater this thermostat can turn On / Off the system depending on the ambient temperature. If remote thermostats are used turn up the internal thermostat to full allowing the external thermostat to control the heater.
- **RST-TP** Tamperproof Thermostat. Used exactly the same as the RST2-IN but temperature adjustment is concealed.
- **PROSTAT4** The PROSTAT4 thermostat is a highly accurate electronic temperature controller suitable for heavy duty use in public areas. There are two temperature settings switchable through a push button and integral countdown timer. Optional remote sensors are available if temperature control is required away from the controller.
- **PROTIM-7** 7 Day programmable timer. This timer will only allow the heating to operate during the “ON” time settings. During “OFF” period there is a “Boost” button that with one press allows heating to operate for 1 hour or with 2 presses 2 hours before turning off. The boost can be cancelled by pressing the “Boost” button a third time.
- **RT16** Digital Thermostat is a 7 Day, 6/1 Day or 5/2 Day programmable room thermostat which offers four time and temperature changes each day. You may also install a remote sensor if you wish to install the thermostat in a different location to the heaters. All settings are stored in the controller with battery back-up.

If you connect heaters in a Master / Slave configuration (See Section 6) controls are only added to the master heater and all the slave heater(s) will follow the master.

5.1 CONECTING AN OUH2-S HEATER CONTROL SWITCH

This can either be mounted on a wall or on the back of the heater next to the thermostat. If mounting on the heater remove the knockout in the heater and electrical box and screw onto the heater using 2 x M4 screws and nuts (not supplied).



OUH2-S Mounted on the back of the heater

OUH2-S Control Switch

The controls and heaters may be fed from a different source and it is essential that all circuit breakers feeding the heating system are isolated prior to any work being carried out on any of the heaters in the system.


Use 1.0mm² 4 core cable

Connections – (Colours for reference only)

Connect Brown Live wire – Terminal 3 of Heater and Terminal L on Control Switch (230V Live connection).

Connect Grey Live wire – Terminal 4 of Heater and Terminal 1 on Control Switch.

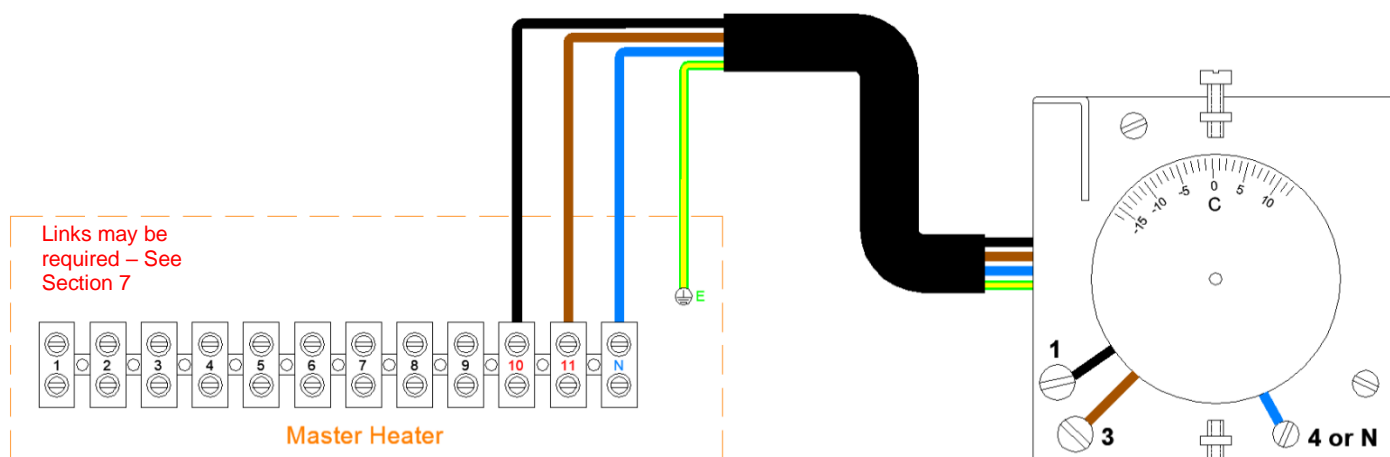
Connect Black wire – Terminal 5 of Heater and Terminal 2 on Control Switch.

Connect Green / Yellow wire – Terminal E or  of Heater and Terminal E (Earth connection) on Control Switch.

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

5.2 CONECTING AN FST-IN FROST THERMOSTAT

The controls and heaters may be fed from a different source and it is essential that all circuit breakers feeding the heating system are isolated prior to any work being carried out on any of the heaters in the system.



FST2-IN Frost Thermostat


Use 1.0mm² 4 core cable

Connections – (Colours for reference only)

Connect Black wire – Terminal 10 of Heater and Terminal 3 on Frost Thermostat.

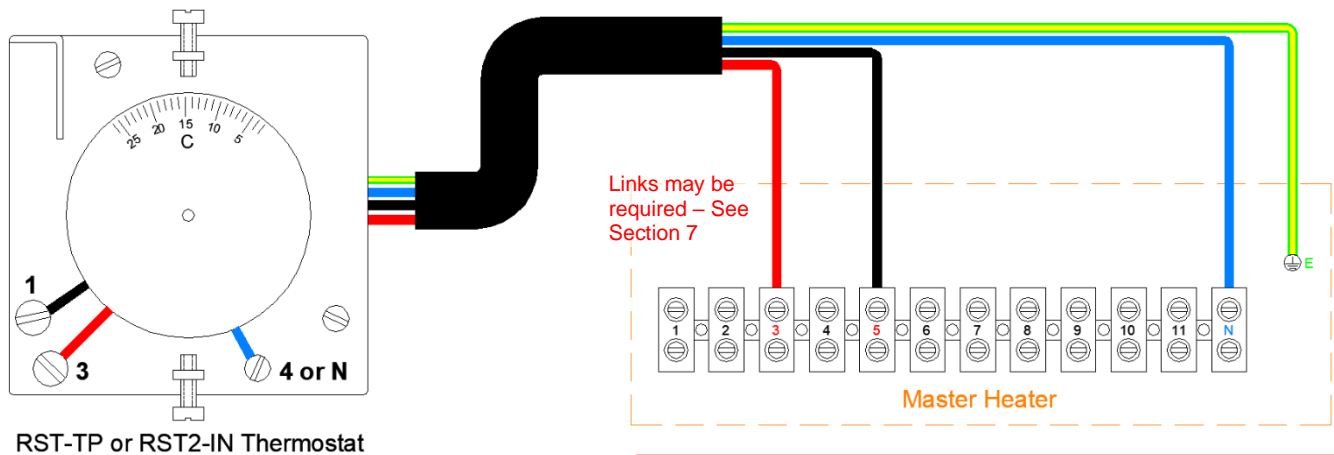
Connect Brown Live wire – Terminal 11 of Heater and Terminal 2 on Frost Thermostat (230V Live connection).

Connect Blue Neutral wire – Terminal N of Heater and Terminal 4 on Frost Thermostat.

Connect Green / Yellow wire – Terminal E or  of the Heater

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

5.3 CONECTING AN RST-TP or RST2-IN THERMOSTAT



RST-TP or RST2-IN Thermostat

Master Heater

The controls and heaters may be fed from a different source and it is essential that all circuit breakers feeding the heating system are isolated prior to any work being carried out on any of the heaters in the system.

Use 1.0mm² 4 core cable

Connections – (Colours for reference only)

Connect Red wire – Terminal 3 of Heater and Terminal 3 on Thermostat.

Connect Black wire – Terminal 5 of Heater and Terminal 1 on Thermostat. Black wire carries 230v when thermostat is on.

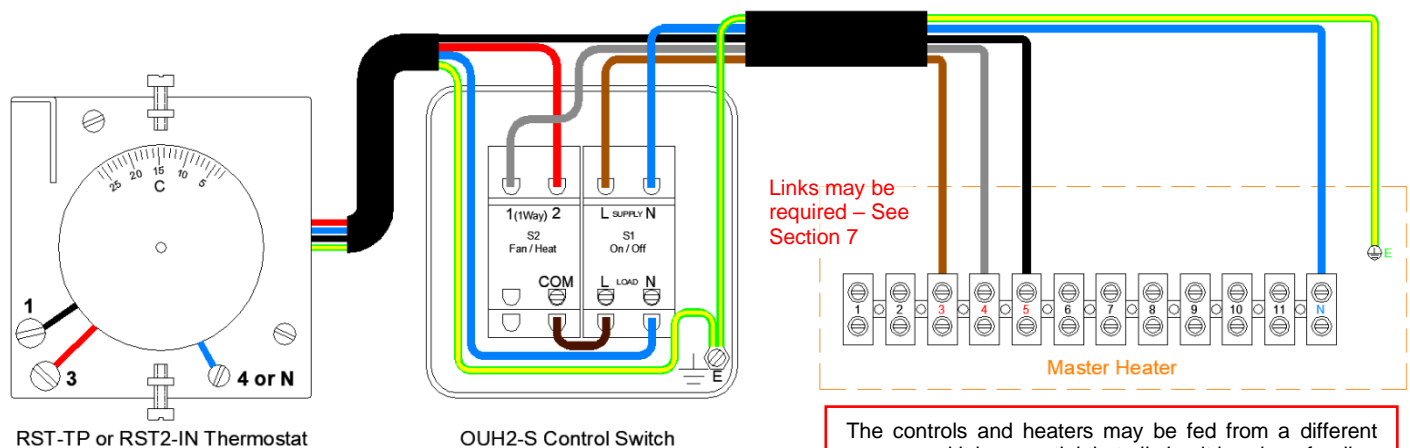
Connect Blue Neutral wire – Terminal N of Heater and Terminal 4 or N on Thermostat.

Connect Green / Yellow wire – Terminal E or  of Heater and Terminal E (Earth connection) on Thermostat.

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

PLEASE NOTE:-Turn up fully the internal thermostat on the back of the heater so it does not override this thermostat

5.4 CONECTING AN RST-TP or RST2-IN THERMOSTAT & OUH2-S CONTROL SWITCH



RST-TP or RST2-IN Thermostat

OUH2-S Control Switch

Master Heater

The controls and heaters may be fed from a different source and it is essential that all circuit breakers feeding the heating system are isolated prior to any work being carried out on any of the heaters in the system.

HEATER to CONTROL SWITCH

Use 1.0mm² 5 core cable

Connections – (Colours for reference only)

Connect Brown Live wire – Terminal 3 of Heater and Terminal L on Control Switch (230V Live connection).

Connect Grey Live wire – Terminal 4 of Heater and Terminal 1 on Control Switch.

Connect Blue Neutral wire – Terminal N of Heater and Terminal N on Control Switch (230V Neutral connection)

Connect Green / Yellow wire – Terminal E or  of Heater and Terminal E (Earth connection) on Control Switch.

HEATER to THERMOSTAT

Connect Black wire – Terminal 5 of Heater and Terminal 1 on Thermostat. Please note; Black wire can be joined in the control switch using a suitable terminal block to allow easy install of controls. Black wire carries 230v when thermostat is on.


CONTROL SWITCH to THERMOSTAT

Use 1.0mm² 4 core cable

Connections – (Colours for reference only)

Connect Red wire – Terminal 2 of Control Switch and Terminal 3 on Thermostat.

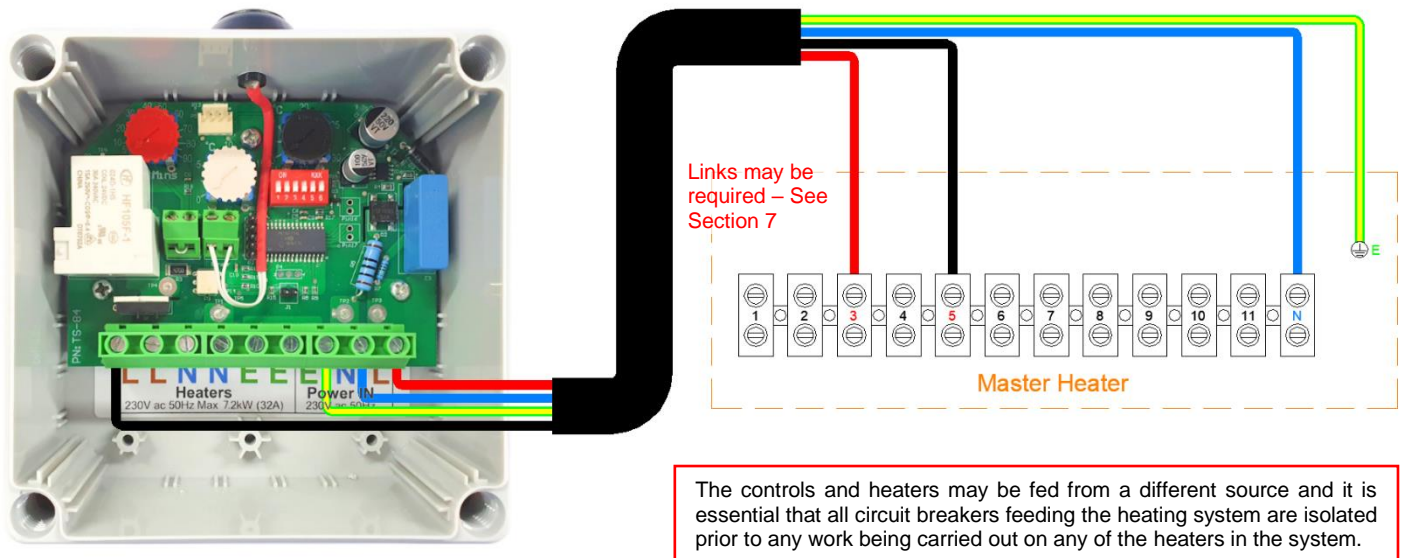
Connect Blue Neutral wire – Terminal N of Control Switch and Terminal 4 or N on Thermostat.

Connect Green / Yellow wire – Terminal E or  of Control Switch and Terminal E (Earth connection) on Thermostat.

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

PLEASE NOTE:-Turn up fully the internal thermostat on the back of the heater so it does not override this thermostat.

5.5 CONECTING AN PROSTAT4 THERMOSTAT




Use 1.0mm² 4 core cable

Connections – (Colours for reference only)

Connect Red wire – Terminal 3 of Heater and Power IN - Live Terminal (L) on Thermostat.

Connect Black wire – Terminal 5 of Heater and Heaters Live Terminal (L) on Thermostat. Black wire carries 230v when thermostat is on.

Connect Blue Neutral wire – Terminal N of Heater and Power IN - Neutral Terminal (N) on Thermostat.

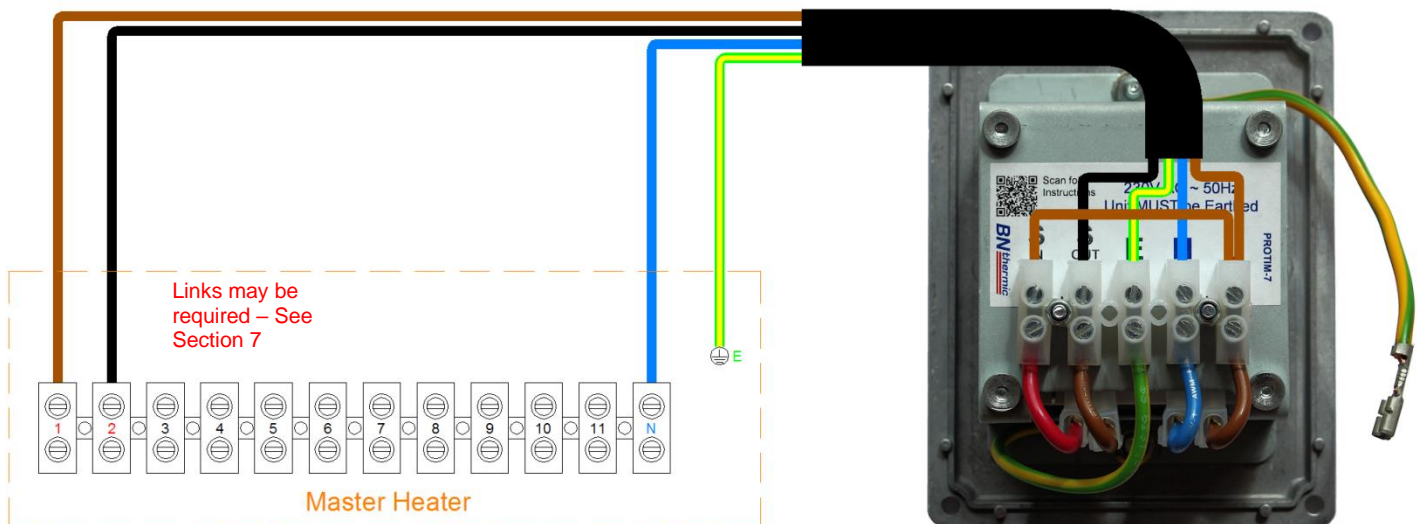
Connect Green / Yellow wire – Terminal E or  of Heater and Terminal E (Earth connection) on Thermostat.

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

PLEASE NOTE:-Turn up fully the internal thermostat on the back of the heater so it does not override this thermostat

5.6 CONECTING AN PROTIM-7 7 DAY PROGRAMABLE TIMER

The controls and heaters may be fed from a different source and it is essential that all circuit breakers feeding the heating system are isolated prior to any work being carried out on any of the heaters in the system.



Use 1.0mm² 4 core cable


Connections – (Colours for reference only)

Connect Brown Live wire – Terminal 1 of Heater and Terminal L on Programmable Timer (230V Live connection).

Add a Link cable (1mm²) between Timer L connection and Timer S_{in} connection.

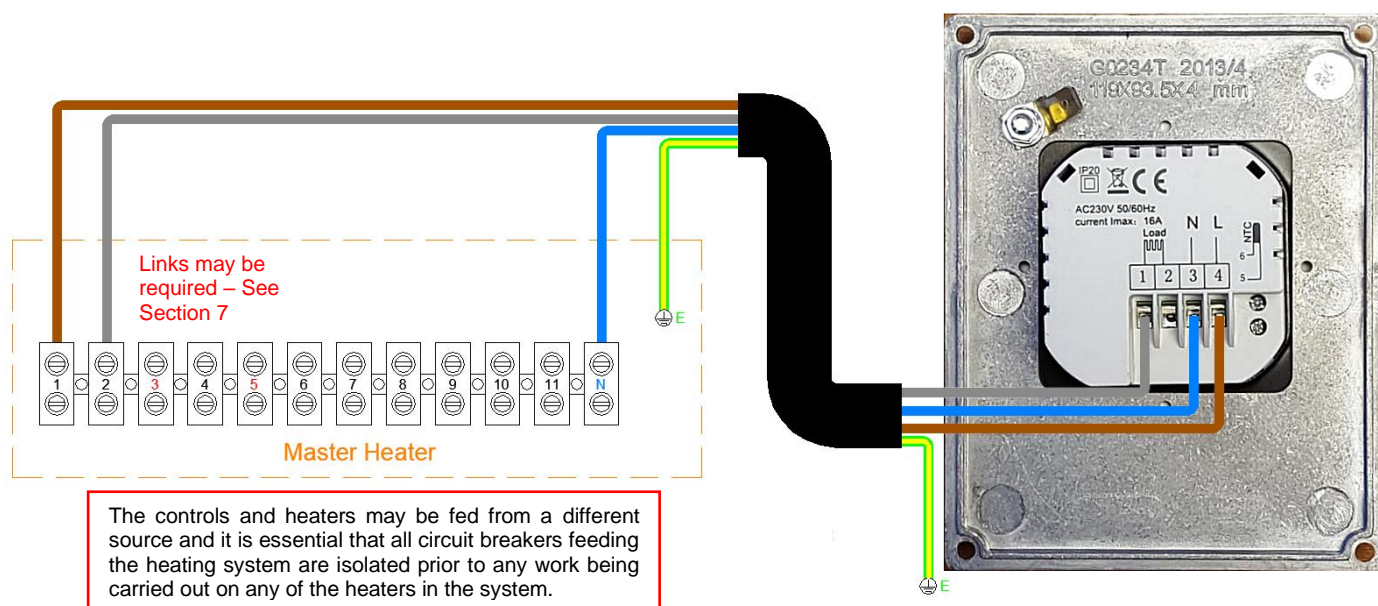
Connect Black wire – Terminal 2 of Heater and Terminal S_{out} on Programmable Timer.

Connect Blue Neutral wire – Terminal N of Heater and Terminal N on Programmable Timer (230V Neutral connection).

Connect Green / Yellow wire – Terminal E or  of Heater and Terminal E (Earth connection) on Programmable Timer.

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

5.7 CONECTING AN RT16 DIGITAL THERMOSTAT




Connections – (Colours for reference only)

Connect Brown Live wire – Terminal 1 of Heater and Terminal L on the Thermostat (230V Live connection).

Connect Grey Live wire – Terminal 2 of Heater and Terminal 1 on the Thermostat. Grey wire carries 230v when thermostat is on.

Connect Blue Neutral wire – Terminal N of Heater and Terminal N on the Thermostat (230V Neutral connection)

Connect Green / Yellow wire – Terminal  E or of Heater and Terminal E (Earth connection) on the Thermostat enclosure.

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

PLEASE NOTE:-Turn up fully the internal thermostat on the back of the heater so it does not override this thermostat.

6. CONECTING HEATERS IN A MASTER SLAVE ARRANGEMENT

IF USING THE HEATERS IN A MASTER / SLAVE ARRANGEMENT PLEASE READ THE FOLLOWING IMPORTANT NOTES BEFORE STARTING THE INSTALATION.

All OUH2 heaters may be connected in a Master / Slave arrangement.

The OUH2 heaters do not need to be the same Wattage or size.

Some OUH2 can be connected using 400v 3 phase supply and some Single phase and still linked as Master / Slaves.

If Using RCD (Residual Circuit Device) all Heaters connected in a Master / Slave arrangement **MUST** be supplied from the same RCD and not multiple RCD's. Multiple MCB's for each heater may and should be used as well.

The controls are always added to the master heater and **NEVER** to any of the slave heaters. You may designate any OUH2 heater to be the master as long as you then follow the following.

- 1) Controls are only added to the master unit.
- 2) Controls if connected as shown in the wiring diagrams on pages 6 – 8 are protected by the master heaters internal 3A fuse.
- 3) Link connections / cables (see section 7), if required are only added to the master unit.
- 4) You are full aware that if a slave unit is present in the system 400v ac may be present in the terminal blocks even if all heaters are run on single phase due to supplies to each heater possibly being taken from different phases.
- 5) A maximum of 1 master and 15 slaves are used in each configuration.
- 6) Older OUH model heaters painted ivory in colour cannot be connected to these new OUH2 models.

Typical set up

There are various options for connecting controls, master and slave units together.
Here is one example.



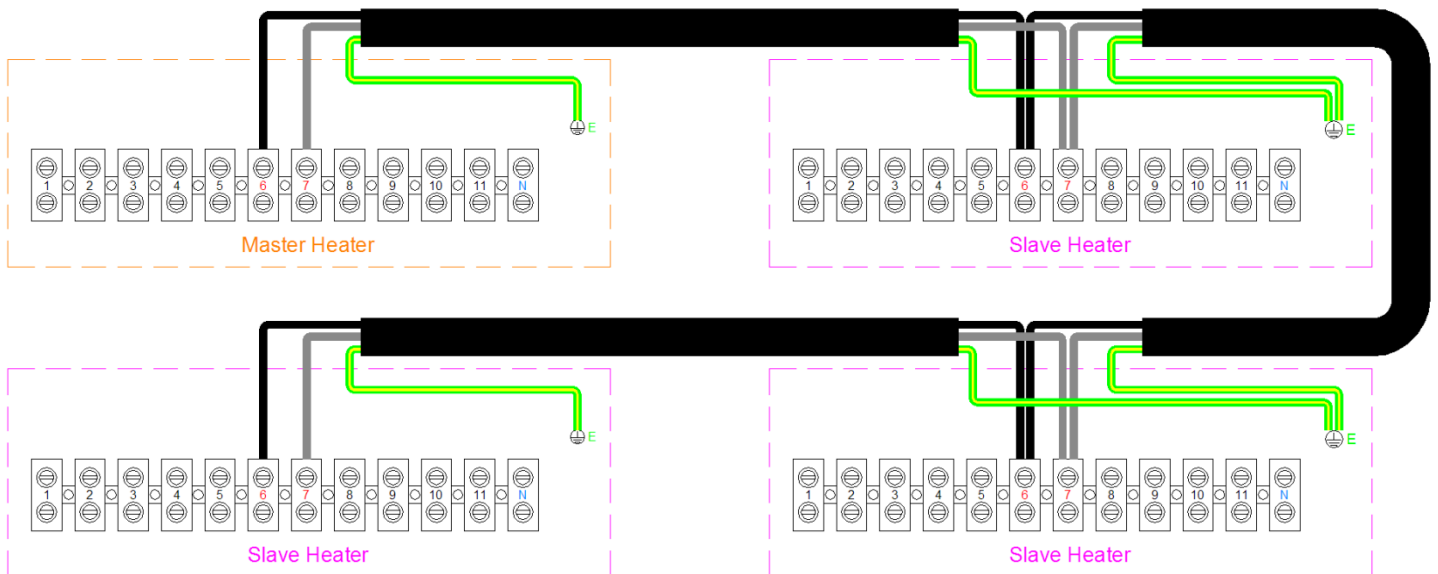
Connect the mains wire to each heater as per section 4.

Decide which heater is going to be the master heater and connect the controls to it as per section 5.

Link the master to the first slave as per instructions on next page.

Link first slave to second slave as per drawing on next page etc etc.

Linking Heater in a Master / Slave Configuration





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

Linking Master Heater to First Slave Heater - Use 1.0mm² 3 core cable

Connections – (Colours for reference only)

Connect Black wire – Terminal 6 of Master heater and Terminal 6 of first Slave heater.

Connect Grey wire – Terminal 7 of Master heater and Terminal 7 of first Slave heater.

Connect Green / Yellow wire – Terminal E or  of Master heater and Terminal E or  of first Slave heater.

Linking Further Slave Heaters - Use 1.0mm² 3 core cable

Daisy chain slave heaters as per drawing above (Maximum number of slave heaters is 15)

The controls and heaters may be fed from a different source and it is essential that all circuit breakers feeding the heating system are isolated prior to any work being carried out on any of the heaters in the system.

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

7. LINK CONNECTIONS

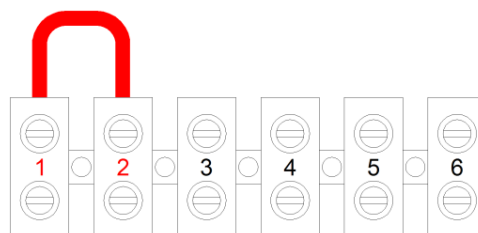
LINK CABLES ARE ONLY NEEDED IN SINGLE HEATERS USED ON THEIR OWN OR IN A MASTER HEATER AND DEPEND UPON WHICH CONTROLS YOU USE

NEVER ADD ANY LINKS TO SLAVE HEATERS- THIS COULD DAMAGE YOUR HEATERS AND IS NOT COVERED BY THE GUARANTEE

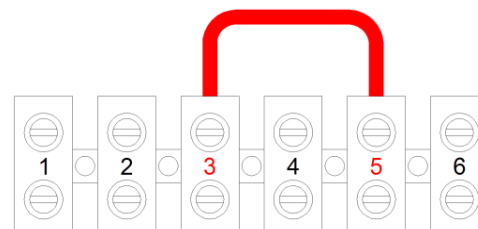
SINGLE HEATERS or MASTER HEATER LINKS

If you don't fit a PROTIM-7 Timer or a RT16 Digital Thermostat to a single heater or the master heater in a Master / Slave set up LINK Terminals 1 & 2 as shown in drawing to the right.

DO NOT PUT THIS LINK CABLE IN ANY OF THE SLAVE HEATERS



If you don't fit an OUH2-S Heater Control Switch or RST-TP or RST2-IN External Thermostat or a PROSTAT4 Thermostat to a single heater or the master heater in a Master / Slave set up LINK Terminals 3 & 5 as shown in drawing to the right. **DO NOT PUT THIS LINK CABLE IN ANY OF THE SLAVE HEATERS**



8. FAN OVER RUN

The heater incorporates a fan over run device that ensures that when the elements turn off the heater case temperature or internal components do not increase significantly. This may either work by allowing the fan to continue running for a while when the elements turn off or by turning the fan back on if the temperature rises when the heater elements and fan turn off. This will normally only occur for a couple of minutes after the heating elements turn off. It is for the above reason that you must turn off the heater using a control device or the internal thermostat and NOT by isolating the mains power. Continuous turning on and off of the heater using the mains supply isolator whilst it is running can damage the heater and is not covered by the guarantee.

9. TROUBLE SHOOTING AND SOLUTIONS

Wall thermostat does not work correctly in a Master / Slave set up or single heater.

Check that you have turned up fully the inbuilt thermostat on the back of the heater as this will turn off the heater if set to a lower temperature than the wall thermostat.

Single heater won't turn on from new.

Check that you have fitted any links that are required correctly – See section 7.

I have a OUH2-S heater control switch it is set to "OFF" but the heaters are still coming on.

This will happen if you have a FST-IN frost Thermostat fitted as it overrides everything to help protect your building from damage by cool temperatures.

Can I add different controllers or additional heaters at a later date?

Yes you can add additional controllers or additional OUH2 heaters at a later date contact you electrician or electrical wholesale for further information.

Why does one heater turn on using a Master / Slave set up but the others stay off?

If you are using the internal thermostat in the heaters this is perfectly normal and one of the new advance features. Each heater turns on / off on its own thermostat so that if one heater was mounted near an outside door or in a cooler part of the building it would turn on more often. The remaining heaters in the warmer areas would stay off. The OUH2-S heater control switch overrides all internal thermostats and turns off every heater.

I need help!

If you have read these instructions and still need help please call us on the number on the back page during office hours and our technical department will assist you. Please have these instructions in front of you when calling as this will assist us in helping you.

10. MAINTENANCE

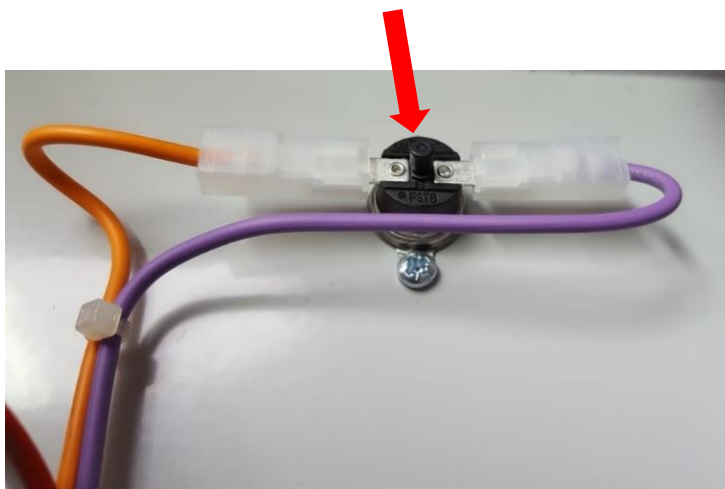
Note: Before examining or carrying out any maintenance ensure the heater has cooled down and is disconnected from the mains supply. Due to the design of this heater there may be two different feeds ensure if so both are disconnected from the mains supply. The heaters are intended to operate for many 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.

11. MANUAL RESET CUT OUT

The following should only be carried out by a qualified electrician.

This heater is fitted with a manual resettable safety device to prevent overheating. The device which is located inside the electrical control box will stop the contactor from working until it is reset. The contactor turns on and off the heating elements. Under normal conditions and operation this cut-out should never operate. Should the cut-out operate disconnect the heater from the mains supply making sure the heater is not fed from two different supplies. Wait for a minimum of 5 minutes to allow the heater to cool down, check and remove any foreign materials around the airways. Now reset the cut-out by pressing the black knob on the top. If the problem persists, please contact us.



12. IMPORTANT NOTES REGARDING SPACE HEATING – PLEASE READ BEFORE INSTALLING

Total output

It is vital that the combined output of the heaters exceeds the heat losses from the entire area you are heating. If you are in any doubt, please contact BN Thermic and we can carry out a quick check for you.

Temperature rise

OUH2 industrial fan heaters warm a space by circulating large volumes of air. The temperature rise across the heater is often barely detectable. This is normal for this style of heater and does not indicate a fault. Our customer service advisers would be happy to talk through this characteristic of industrial fan heaters if clarification is needed.

Now you have read and accepted the above points, please continue with your installation by reading through the instructions first. Any questions you may have call our customer service advisers who will be delighted to help you.

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 a period of five years from date of purchase assuming standard comfort heating application. Our warranty does not cover corrosion or incorrect installation. 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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