

BROMIC®
HEATING

Installation, Instruction & Service Manual

TUNGSTEN SMART-HEAT™ ELECTRIC
Select & Coastal Models

Models available: 2000W, 3000W, 4000W and 6000W

IMPORTANT: Read this manual carefully. See inside for important information about this manual.
Keep instruction with appliance for future reference.

www.bromic.com

PROP 65 WARNING FOR CALIFORNIA RESIDENTS
⚠ Cancer and Reproductive harm. www.P65warnings.ca.gov
AVERTISSEMENT PROP. 65 POUR LES RÉSIDENTS DE LA CALIFORNIE
⚠ Cancer et troubles de l'appareil reproducteur www.P65warnings.ca.gov
ADVERTENCIA PROP. 65 PARA LOS RESIDENTES DE CALIFORNIA
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IMPORTANT NOTES & WARNINGS

⚠ WARNING

- Read all instructions before installing or using this heater
- Use this heater only as described in this manual. Any other use not recommended by the manufacturer may cause fire, electric shock, or injury to persons.
- Improper installation, adjustment, or alteration and failure to follow the warnings and instructions in this manual could result in severe personal injury, death or property damage.
- The manufacturer is not responsible for any damage that could happen from improper use. The manufacturer emphasises that this appliance should be used in a responsible manner and that all procedures, warnings, and safety instructions contained in this booklet be followed strictly.
- This heater is not intended for use in bathrooms, laundry areas and similar indoor locations. Never locate heater where it may fall into a bathtub or other water container.
- Do not install the heater directly near a bathtub, shower or swimming pool. Any switches or controls must not be within reach of a person in the bathtub, shower or swimming pool.
- This heater is hot when in use. To avoid burns do not let bare skin touch hot surfaces. Keep combustible materials such as furniture, pillows, bedding, papers, clothes , etc. and curtains at least 3' (900mm) from the front of the heater and keep them away from the sides and rear.
- Extreme caution is necessary when any heater is used by or near children or invalids and whenever the heater is left operating and unattended.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Keep packaging materials out of reach of children
- Children and adults should be alerted to the hazards of high surface temperatures and should stay away to avoid burns, clothing ignition, or other serious personal injury
- **CAUTION** - some parts of this product can become very hot and cause burns. Attention should be given where children and vulnerable people are present.
- Do not attempt to alter the unit in any manner.
- Do not paint any surface of the heater.
- Do not touch the heater with wet hands at any time.
- Do not insert or allow foreign objects to enter front cover or front opening as this may cause an electric shock or fire, or damage the heater
- Do not touch the heating surface at any time, even when the heater is turned off and has cooled down.
- Do not use or store flammable materials near this appliance
- Do not spray aerosols or flammable materials in the vicinity of this appliance while it is in operation
- Never operate the heater in an explosive environment such as areas where petrol or other flammable liquids or vapours are stored.
- Clothing or other flammable materials should not be hung from the heater or placed on or near the heater.

INSTALLATION

- **IMPORTANT** - Installation must be carried out by a licensed and authorised person.
- The installer is to ensure that the requirements of the local authority, local electrical installation code, municipal building codes, and any other relevant statutory regulations are carried out.
- After unpacking, make sure the appliance shows no signs of visible damage or tampering. If the appliance appears damaged, contact the place of purchase for assistance.
- Remove transit protection before use.
- This appliance is intended for fixed installation with voltage as specified on the appliance rating label.
- This radiant heater is NOT intended to be installed on recreational vehicles and/or boats.
- Do not run cord under carpeting. Do not cover with throw rugs, runners or the like. Arrange cord away from traffic area and where it will not be tripped over
- A heater has hot, arcing or sparking parts inside. Do not use it in areas where gasoline, paint or flammable liquids are used or stored.
- To maintain Ingress Protection Rating (IPX5), only IPX5 rated conduit fittings should be used for electrical installation.
- This Installation, Operation and Service manual should not be removed from the site of installation. Installer should leave manual with the customer for future reference.
- Any guard or other protective device removed for servicing (conducted by an authorised person) must be replaced before operating the heater.
- Heaters are not intended to be installed in wardrobes.
- The appliance must not be located directly below or in front of a wall electricity socket. This is because the heat radiated from the appliance may damage the electricity outlet or plug.
- If the appliance has not been used, or will not be used, for a long period of time, disconnect power supply
- For supply connections, use wires suitable for at least 105°C (220°F). Use copper or aluminum wire.
- If the connection point between the supply cable and the leads is outside the mounting pole, a junction box must be used.
- Do not mount the heater vertically. Install Heater so that the infrared elements are Horizontal. Failure to do this may cause the heating element within the tube to sag and cause premature burnout. Installing vertically will void the manufacturer's warranty.

CLEARANCE

- Do not place articles on or against this appliance
- Do not install heater less than 6' (1.8m) from floor when wall mounted, 8' from floor when ceiling mounted.
- Be sure the heater is not facing the ceiling or installed near flammable, combustible or heat sensitive materials

MAINTENANCE/REPAIR

- Installation and repair must be carried out by a qualified & licensed service person only. The heater should be inspected before use and at least annually serviced & inspected by a qualified & licensed service person.
- Do not perform maintenance until heater has been turned off, power disconnected, and heater temperature has cooled to room temperature.
- Check for damage to the appliance regularly. If damage to the appliance is suspected, discontinue use immediately and contact the supplier or qualified person to repair.
- If the supply cord is damaged, it must be replaced by an authorized and licensed person in order to avoid a hazard.
- At the end of this product's 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 at the end of its useful life. Failure to do so may incur the penalties established by laws governing waste disposal. Proper differential collection, and the subsequent recycling, processing and environmentally compatible disposal of waste equipment avoids unnecessary damage to the environment and possible related health risks, and also promotes recycling of the materials used in the appliance. For further information on waste collection and disposal, contact your local waste disposal service, or the place of purchase.

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PRODUCT OVERVIEW

PRODUCT FEATURES

- The Tungsten Smart-Heat Electric heaters are designed to provide efficient spot heating for commercial and residential applications.
- The heaters are available in 2000W, 3000W, 4000W and 6000W models to suit a range of environments.
- High temperature corrosion-resistant coating.
- IPX5 water ingress protection rating.
- Soft glow infrared heating element - No harsh glare.
- Standard mounting hardware included for wall or ceiling mount allowing for adjustable angle of the heating direction.
- Recessed or flush mount installation with compatible recess kit (sold separately) which lets the heater be installed within a ceiling cavity, even in low-clearance applications.
- Heater is equipped with spectral reflector for excellent radiant heat output.
- Registered Design

TUNGSTEN SELECT

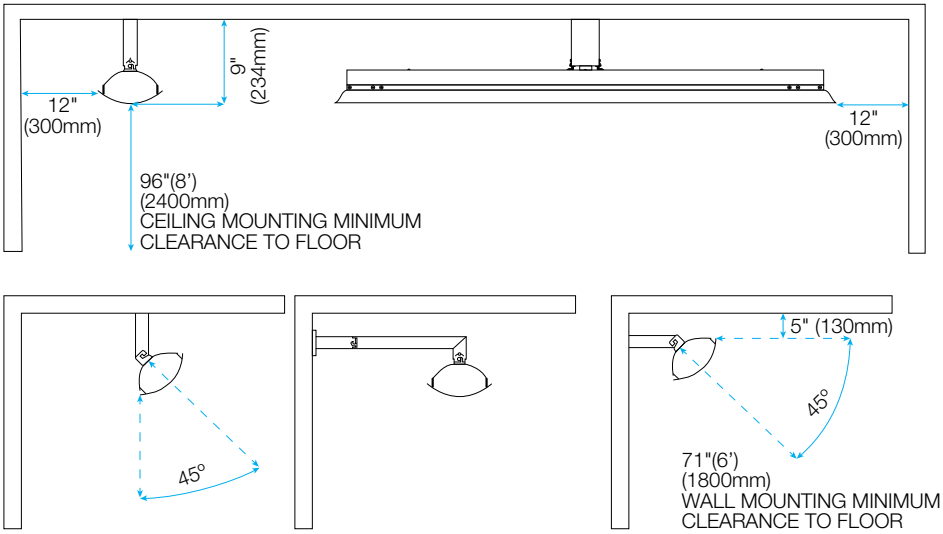
MODEL	COLOR	ELEMENTS	BRACKET LENGTH	VOLTAGE	AMPS	WATTS	HEATING AREA	DIMENSIONS	WEIGHT (LBS)
BH0440212	Black	1	5” (130 mm)	240V	8.3A	2000W	up to 65ft² (6m²)	45” x 7” x 6” (114 x 18 x 14 cm)	13 lbs (5.5kg)
BH0440312	Black	1	5” (130 mm)	240V	12.5A	3000W	up to 100ft² (9.3m²)	57” x 7” x 6” (144 x 18 x 14 cm)	15 lbs (7 kg)
BH0440412	Black	2	9” (225 mm)	240V	16.6A	4000W	up to 130ft² (12.1m²)	45” x 7” x 6” (114 x 18 x 14 cm)	13 lbs (5.5kg)
BH0440612	Black	2	9” (225 mm)	240V	25A	6000W	up to 160ft² (14.9m²)	57” x 7” x 6” (144 x 18 x 14 cm)	15 lbs (7 kg)
BH0440413	White	2	9” (225 mm)	240V	16.6A	4000W	up to 130ft² (12.1m²)	45” x 7” x 6” (114 x 18 x 14 cm)	13 lbs (5.5kg)
BH0440613	White	2	9” (225 mm)	240V	25A	6000W	up to 160ft² (14.9m²)	57” x 7” x 6” (144 x 18 x 14 cm)	15 lbs 7 kg)
BH0440414	Graphite	2	9” (225 mm)	240V	16.6A	4000W	up to 130ft² (12.1m²)	45” x 7” x 6” (114 x 18 x 14 cm)	13 lbs (5.5kg)
BH0440614	Graphite	2	9” (225 mm)	240V	25A	6000W	up to 160ft² (14.9m²)	57” x 7” x 6” (144 x 18 x 14 cm)	15 lbs (7 kg)
BH0440322	Black	1	5” (130 mm)	208V	14.4A	3000W	up to 100ft² (9.3m²)	57” x 7” x 6” (144 x 18 x 14 cm)	15 lbs 7 kg)
BH0440422	Black	2	9” (225 mm)	208V	19.2A	4000W	up to 130ft² (12.1 m²)	45” x 7” x 6” (114 x 18 x 14 cm)	13 lbs (5.5kg)
BH0440622	Black	2	9” (225 mm)	208V	28.8A	6000W	up to 160ft² (14.9m²)	57” x 7” x 6” (144 x 18 x 14 cm)	15 lbs 7 kg)
BH0440423	White	2	9” (225 mm)	208V	19.2A	4000W	up to 130ft² (12.1m²)	45” x 7” x 6” (114 x 18 x 14 cm)	13 lbs (5.5kg)
BH0440623	White	2	9” (225 mm)	208V	28.8A	6000W	up to 160ft² (14.9m²)	57” x 7” x 6” (144 x 18 x 14 cm)	15 lbs 7kg)
BH0440424	Graphite	2	9” (225 mm)	208V	19.2A	4000W	up to 130ft² (12.1m²)	45” x 7” x 6” (114 x 18 x 14 cm)	13 lbs (5.5kg)
BH0440624	Graphite	2	9” (225 mm)	208V	28.8A	6000W	up to 160ft² (14.9m²)	57” x 7” x 6” (144 x 18 x 14 cm)	15 lbs 7 kg)
BH0440332	Black	1	5” (130 mm)	277V	10.8A	3000W	up to 100ft² (9.3m²)	57” x 7” x 6” (144 x 18 x 14 cm)	15 lbs 7 kg)
BH0440432	Black	2	9” (225 mm)	277V	14.4A	4000W	up to 130ft² (12.1m²)	45” x 7” x 6” (114 x 18 x 14 cm)	13 lbs (5.5kg)
BH0440632	Black	2	9” (225 mm)	277V	21.7A	6000W	up to 160ft² (14.9m²)	57” x 7” x 6” (144 x 18 x 14 cm)	15 lbs 7 kg)
BH0440433	White	2	9” (225 mm)	277V	14.4A	4000W	up to 130ft² (12.1m²)	45” x 7” x 6” (114 x 18 x 14 cm)	13 lbs (5.5kg)
BH0440633	White	2	9” (225 mm)	277V	21.7A	6000W	up to 160ft² (14.9m²)	57” x 7” x 6” (144 x 18 x 14 cm)	15 lbs (7 kg)
BH0440434	Graphite	2	9” (225 mm)	277V	14.4A	4000W	up to 130ft² (12.1m²)	45” x 7” x 6” (114 x 18 x 14 cm)	13 lbs (5.5kg)
BH0440634	Graphite	2	9” (225 mm)	277V	21.7A	6000W	up to 160ft² (14.9m²)	57” x 7” x 6” (144 x 18 x 14 cm)	15 lbs (7 kg)

TUNGSTEN COASTAL

MODEL	COLOR	ELEMENTS	BRACKET LENGTH	VOLTAGE	AMPS	WATTS	HEATING AREA	DIMENSIONS	WEIGHT (LBS)
BH0450412	Black	2	9” (225 mm)	240V	16.6A	4000W	up to 130ft² (12.1m²)	45” x 7” x 6” (114 x 18 x 14 cm)	13 lbs (5.5 kg)
BH0450612	Black	2	9” (225 mm)	240V	25A	6000W	up to 160ft² (14.9m²)	57” x 7” x 6” (144 x 18 x 14 cm)	15 lbs 7 kg)
BH0450413	White	2	9” (225 mm)	240V	16.6A	4000W	up to 130ft² (12.1m²)	45” x 7” x 6” (114 x 18 x 14 cm)	13 lbs (5.5 kg)
BH0450613	White	2	9” (225 mm)	240V	25A	6000W	up to 160ft² (14.9m²)	57” x 7” x 6” (144 x 18 x 14 cm)	15 lbs (7 kg)

Certification: INTERTEK ETL / cETL XXXXXXXX
Note: All models may not be available in all regions

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HEATER INSTALLATION

INSTALLATION CLEARANCES

FOR 2000W & 3000W MODELS

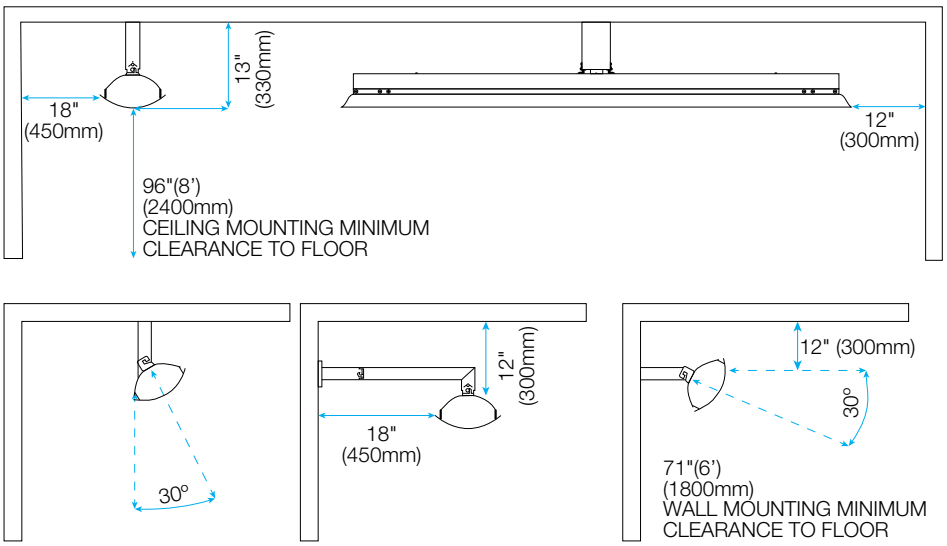
2000W & 3000W models must be installed with the minimum installation clearances as illustrated. 2000W & 3000W models are supplied with 5" (130mm) mounting brackets [DD5.1]to be used for both ceiling & wall mounting. The heater can also be mounted with a wall mount adaptor (sold separately).

FOR CANADA (CETL) APPROVAL DO NOT INSTALL LESS THAN 96" (2440mm) FROM THE FLOOR.

⚠ WARNING

MINIMUM DISTANCE BETWEEN HEATERS MEASURED FROM EDGE OF HEATER MUST BE AT LEAST 20" (510mm)

The stated clearance to combustible or heat sensitive materials represents surface temperature of 117ºF (47ºC) above room temperature. Building material with a low heat tolerance (such as plastic, vinyl siding, canvas, tri-ply etc.) may subject to degradation at lower temperature. It is the installer's responsibility to ensure that adjacent materials are protected.



INSTALLATION CLEARANCES

FOR 4000W & 6000W MODELS

4000W & 6000W models must be installed with the minimum installation clearances as illustrated. 4000W & 6000W models are supplied with 9.5" (240 mm) mounting brackets to be used for both ceiling & wall mounting. Alternatively, short mounting brackets (sold separately) can be used for wall mounting of the 4000W & 6000W models to position the heater closer to the wall. The heater can also be mounted with a wall mount adaptor (sold separately).

FOR CANADA (CETL) APPROVAL DO NOT INSTALL LESS THAN 96" (2440mm) FROM THE FLOOR.

⚠ WARNING

MINIMUM DISTANCE BETWEEN HEATERS MEASURED FROM EDGE OF HEATER MUST BE AT LEAST 20" (510mm)

The stated clearance to combustible or heat sensitive materials represents surface temperature of 117ºF (47ºC) above room temperature. Building material with a low heat tolerance (such as plastic, vinyl siding, canvas, tri-ply etc.) may subject to degradation at lower temperature. It is the installer's responsibility to ensure that adjacent materials are protected.

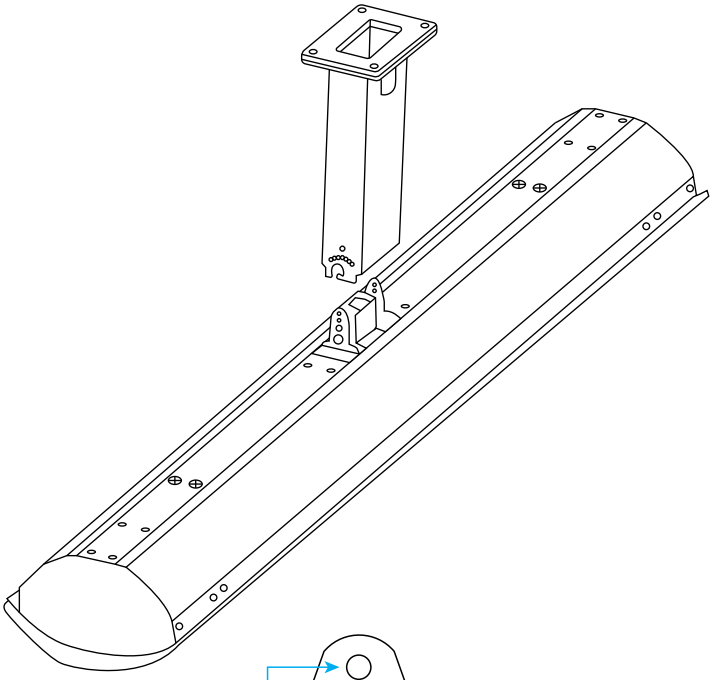
⚠ WARNING

DO NOT MOUNT THE HEATER VERTICALLY!
Heater MUST be installed so that the tube elements are horizontal. Failure to do this will cause the heating element within the tube to sag and cause premature burnout. Installing vertically will void the manufacturers warranty.

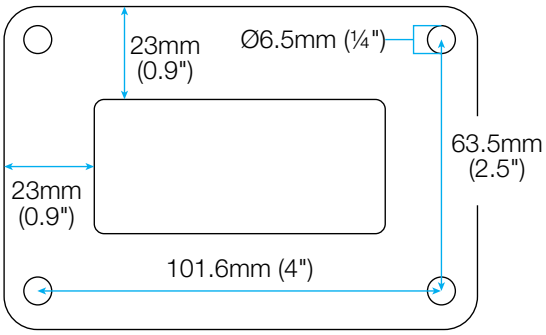
⚠ WARNING

OUTDOOR INSTALLATION RECOMMENDATION
For outdoor installation heater must be mounted with face of heater angled down. For longest product life & to maintain product appearance mount heater under cover & protect from rain & weather whenever possible.

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1 Mounting Hole Centres & Heater Position



ANGLED OR STRAIGHT MOUNTING

The Tungsten can be mounted either straight or at an angle to its mounting pole. For mounting at an angle, use the holes marked position A. For straight mounting, use the holes marked position B. The remainder of this manual uses mounting position B. To change the mounted height of the heater, the heater may also be used with alternative mounting poles (sold separately).

⚠ WARNING

4kW and 6kW heaters must not be mounted from the ceiling with the 5" (130mm) mounting pole.

CEILING/ANGLED WALL MOUNTING

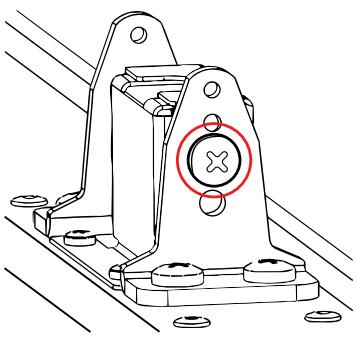
1. Mark mounting hole centers on ceiling or wall.
2. To exit the cable through the mounting pole directly into your ceiling, drill a hole in the ceiling or wall at least 5/8" (16 mm) diameter which aligns with the clear space in the center of the wall bracket.
3. Attach mounting pole to ceiling or wall using appropriate fasteners (not supplied). See note on compatible bracket lengths.
4. Insert an M5x12 screw into each of the mounting brackets on the heater as per the diagram. Leave at least 6mm of screw thread exposed. Do not tighten the screw all the way.
5. Before attaching the heater, run the wire as desired. See the section "running the wires".
6. Bring heater up to mounting brackets and hook M5 screws into place in mounting slots. Ensure wires run through the center of the mounting pole.
7. Lock heater into position with one M3 screw on each side. If mounting the heater at an angle, tilt the heater before locking it into position with the screw. If wall mounting the heater, have the hook facing upwards.

   ⚠ WARNING

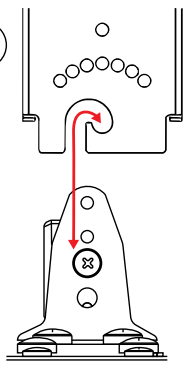
   When ceiling mounting the 4kW or 6kW heaters, the maximum allowable tilt angle is 30 degrees. DO NOT USE the outermost mounting hole (circled with the dashed line)

8. Make electrical connection from heater to power supply. See the "Electrical Connection" section of this manual.

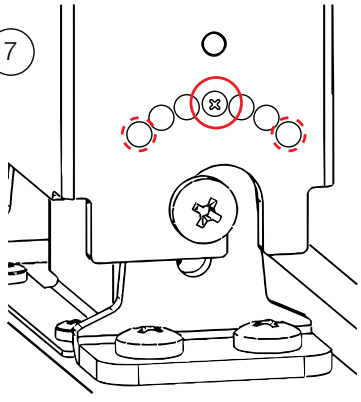
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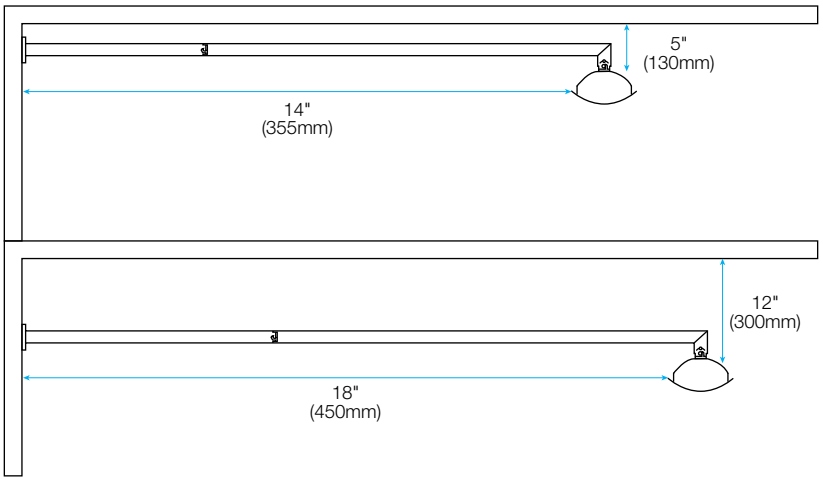
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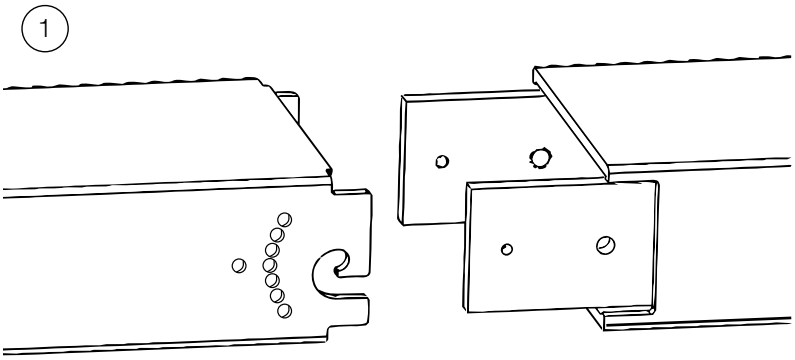
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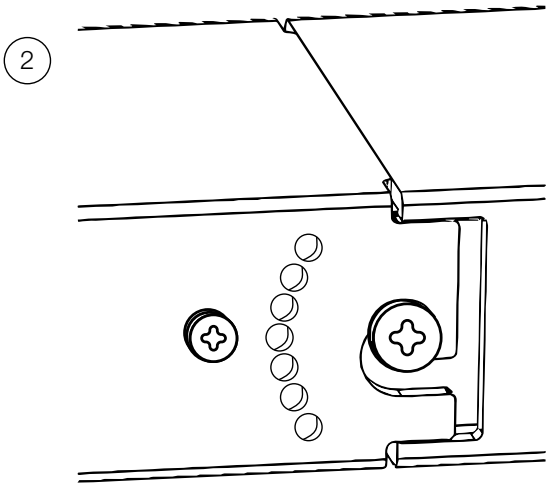


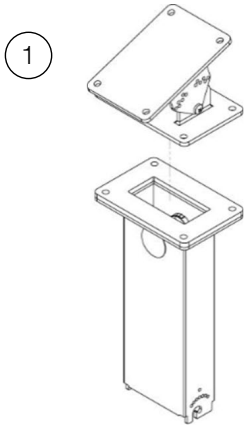
CANTILEVERED WALL MOUNTING

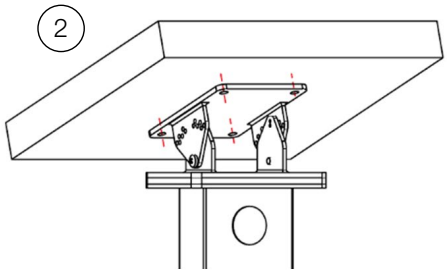
The Tungsten heater may also be installed perpendicular to the wall facing downwards using the wall mount adaptor (sold separately).

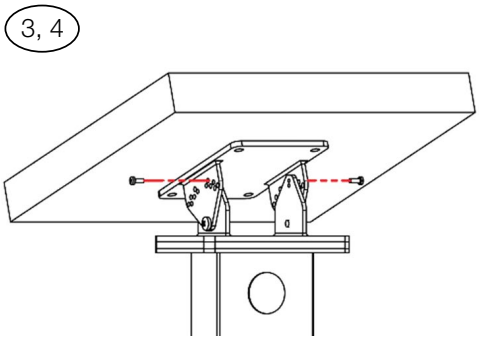
1. Slide the wall mount adaptor into the provided ceiling pole. The wall mount adaptor must not be used with a ceiling pole of any other length.
2. Secure the wall mount adaptor in the ceiling pole with the provided M5 and M3 screws.
3. Assemble the mounting pole and heater as per the steps in the “ceiling/angled wall mounting” section of this manual.

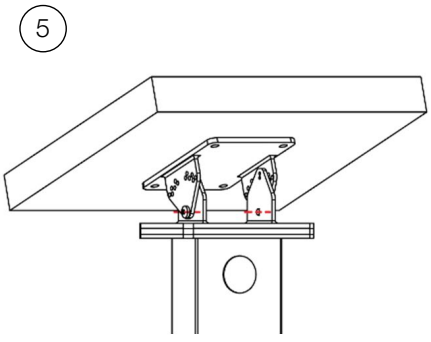










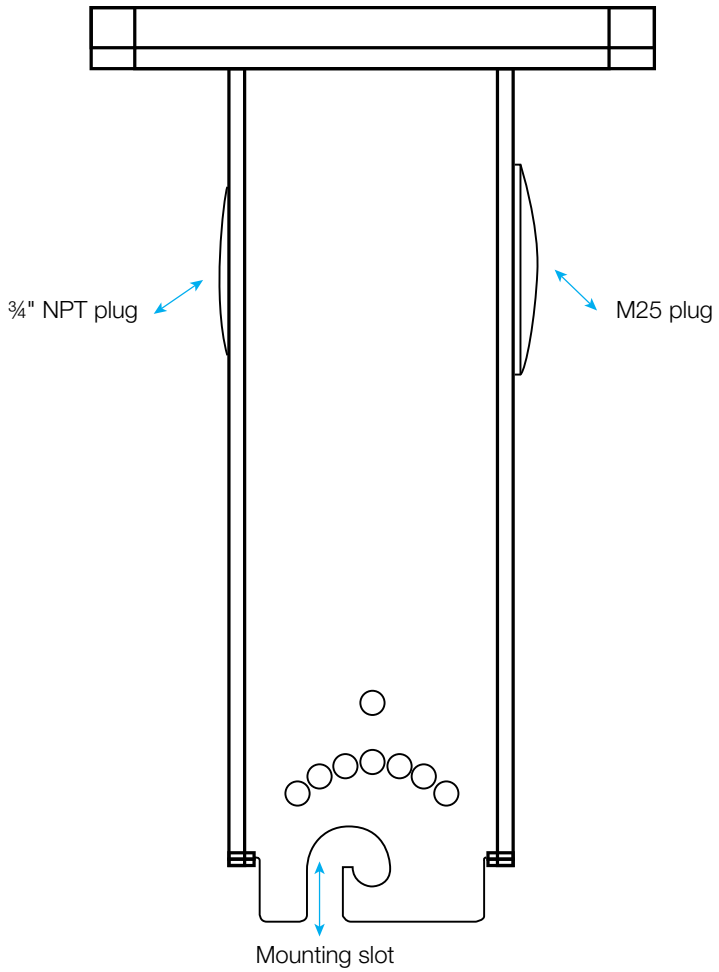


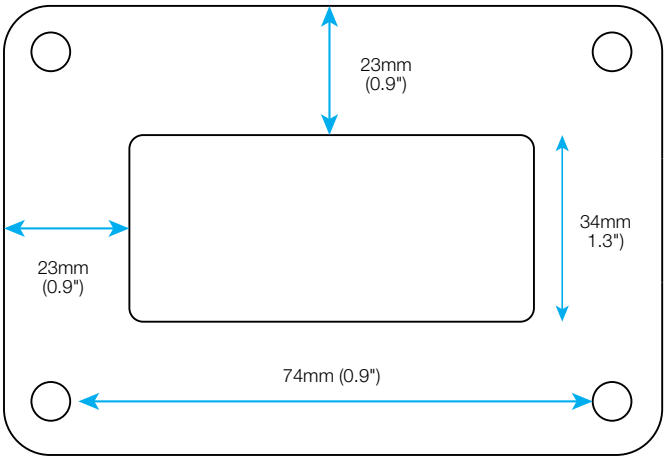
PITCHED CEILING MOUNTING

The heater can also be mounted to pitched ceilings with Pitched Ceiling Adapter (sold separately). The adapter can be used with either the included mounting pole, or an accessory mounting pole (sold separately). The adapter allows the heater to be mounted either in-line with the ceiling pitch, or cross-slope.

1. Using the provided M6 screws, attach either the base plate or the top plate of the Pitched Ceiling Adapter to the end of the mounting pole. The base plate is the part that has two holes per side.
    a. To mount the heater cross-slope, attach the base plate to the mounting pole.
    b. To mount the heater in-line with the slope, attach the top plate to the mounting pole.
2. Mount the whole assembly (Pitched Ceiling Adapter + mounting pole) to the pitched ceiling with appropriate fasteners (not included).
3. Adjust the tilt of the adaptor such that the mounting pole hangs straight down vertically.
4. Secure the tilt of the mounting pole by locking the top plate with an M3 screw on each side in the appropriate hole.
5. Secure the adapter by tightening the M5 screw on each side.

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RUNNING THE WIRES

The wiring for this heater can either run through the top of the mounting pole and into the ceiling, or out of the side of the pole and through flexible conduit.

RUNNING WIRE INTO THE CEILING

1. Mark mounting hole centers on ceiling or wall.
2. To exit the cable through the mounting pole directly into your ceiling/wall, drill a hole in the ceiling or wall at least 16mm in diameter which aligns with the clear space in the center of the wall bracket.
3. Mount the heater as per the instructions in the ceiling/wall mounting section.
   a. For included mounting poles, mount the heater and run the included supply leads through the prepared hole. Join the supply leads to an appropriate supply cable in the ceiling or wall cavity.
   b. For 600mm and 1200mm mounting poles, the wires on the heater must first be joined to the appropriate supply cable before mounting.

FLEXIBLE CONDUIT

The mounting pole comes with two different holes and can be used with either an M25 conduit gland and 25mm flexible conduit, or 3/4" NPT trade size conduit gland and flexible conduit.

1. Remove the appropriate plug. The mounting slot shows the position of the different plug sizes. See the diagram.
2. Attach the appropriate conduit gland to the hole. The conduit gland must be at least IPX5 rated to preserve the IPX5 rating of the heater.
3. Run an appropriate supply cable through the flexible conduit, conduit gland, mounting pole, and to the heater.
4. Join the supply cable to the supply leads on the heater.
5. Mount the heater as per the instructions in the ceiling/wall mounting section.
6. Secure the flexible conduit to the conduit gland, taking care to ensure all supply lead/supply cable is covered by the conduit.

MINIMUM WIRE SIZES

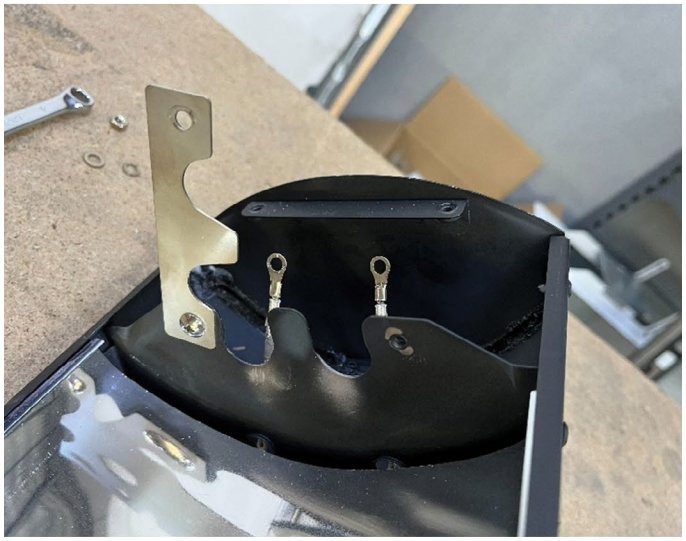
CONNECTION TYPE	MINIMUM WIRE GAUGE FOR WIRE LENGTHS <50 FEET (US/CANADA ONLY)	MINIMUM WIRE CROSS SECTION (ALL OTHER REGIONS)
2000W, 3000W, 4000W and 6000W heaters where each element is wired separately	14 AWG	1.5mm^2
4000W heaters where both elements are joined to a single wire	12 AWG	2.5mm^2
6000W heaters where both elements are joined to a single wire	10 AWG	4mm^2

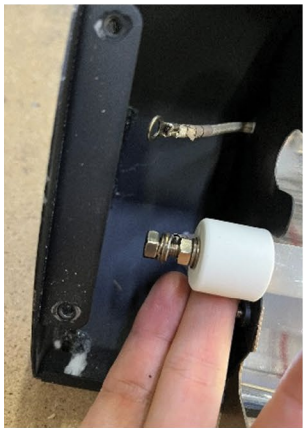
US/Canada: For wire lengths of >50 feet, consult local electrical code for the appropriate wire gauge.

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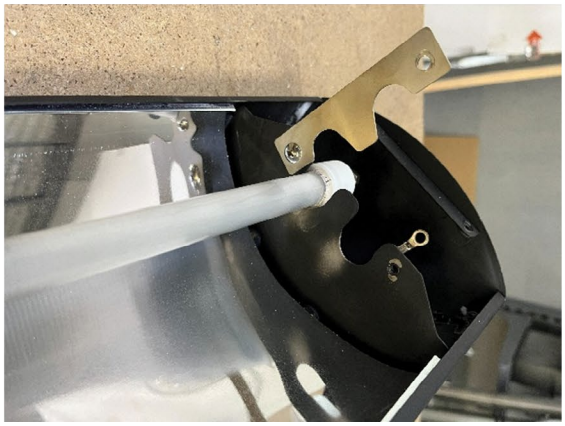












ELEMENT INSTALLATION

⚠ WARNING

This Heater MUST be permanently installed and hard-wired by an authorized/licensed person. Do Not perform maintenance or carry out installation or assembly procedure while electrical power is switched on.

⚠ **Note:** These images demonstrate element replacement on a 4kW/6kW model. 2/3kW models are identical, but with only a single element

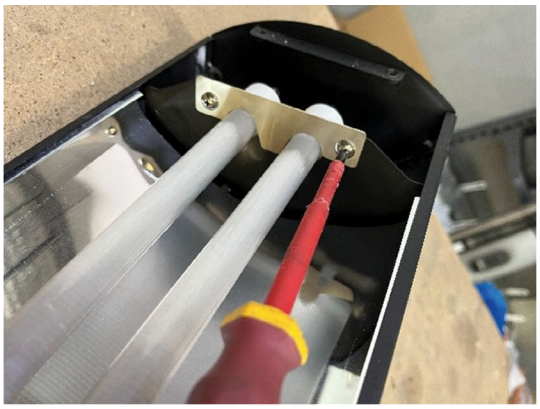
1. Remove the front cover from the heater.

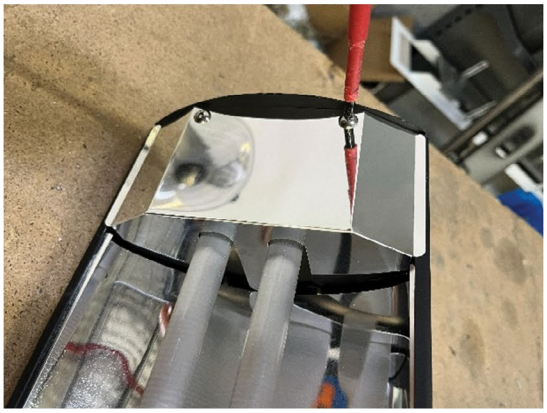
2. Check that ring terminals are crimped securely to cables. 2000W & 3000W models have one cable at each end for assembly of one element. 4000W & 6000W models have two cables at each end for assembly of two elements. The first element must be connected to the cables marked 1 & 2. The second element must be connected to the cable marked 3 & 4.

3. Fasten elements to cables. Remove outer nut & lock washer from the threaded stud on the element. Assemble ring terminal to the threaded stud & secure with outer nut and lock washer. Use one spanner to hold the inner nut on the element, while fastening the outer nut with a second spanner. Repeat for the other end of element. Minimum torque of 6.5Nm must be applied.

4. Put elements in the support bracket. For 2000W & 3000W models put element in the center position. For 4000W & 6000W models put elements in the outside positions.

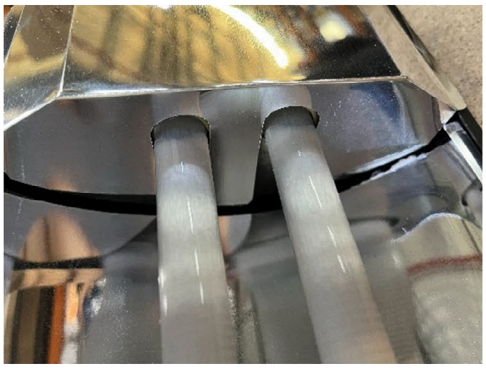
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5. Close element lock bracket & fasten with self-tapping screw. Repeat for the other end of heater.

6. Assemble end caps at both ends of the heater with 2 screws. For 4000W & 6000W models ensure that the middle tab of the end caps is slotted behind the element support bracket.



⚠ **Note:** Protective end caps must be installed to protect wiring from heat exposure. Without this protection wiring will be damaged and heater will be inoperable.





7. Assemble front cover onto the heater. Hook front cover to one side of the heater and push other side down. Fasten into position with 3 self tapping screws.



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ELECTRICAL INSTALLATION

⚠ WARNING
Heater MUST be permanently installed and hard-wired by an authorized/licensed person. Do not perform maintenance, carry out installation, or assembly while electrical power is switched on.

⚠ WARNING
ELECTRICAL SHOCK HAZARD! Serious injury or death may occur. Disconnect from electrical supply before installing or servicing this heater. Read and follow installation clearance requirements outlined in this manual. The appliance MUST be connected to a properly grounded electrical source.

Important: When installing heaters using Bromic Controls, please review the installation instructions for the selected controls prior to beginning the installation to ensure proper placement and clearances are met. Bromic Controls should be mounted in well-ventilated locations away from any heat source.

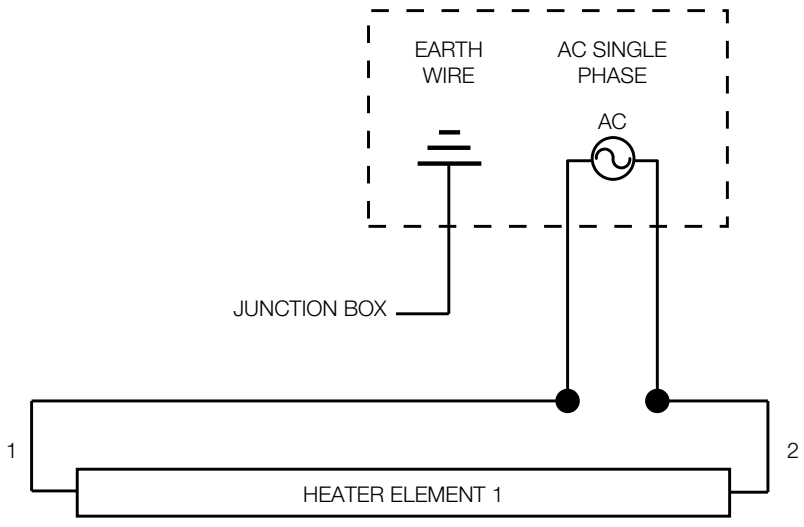
INSTALLATION

1. Check product labeling for correct voltage and wattage. Make sure power sources conform to the heater's requirements.
2. For supply connections, use suitable power supply wire that is rated for at least 90˚C (194˚F). Use copper or aluminum wire. For 2000W and 3000W models: use only one branch circuit. Ensure wire meets minimum wire gauge requirements in the table below.
3. Make electrical connections in accordance with local electrical code regulations. See the "connecting the elements" section below.
4. For outdoor installation, all connections must be made in accordance with local electrical code regulations for outdoor wiring. Only use wiring components approved for outdoor use with minimum IPX5 rating.

CONNECTING THE ELEMENTS

Connect the supply leads to the supply cable as per the table below. Labels '1-2' and '3-4' each correspond to one heating element.

LABEL	208V & 240V IN US	277V IN US; 240V IN ALL OTHER REGIONS
1	Hot leg 1	Line
2	Hot leg 2	Neutral
3	Hot leg 1	Line
4	Hot leg 2	Neutral



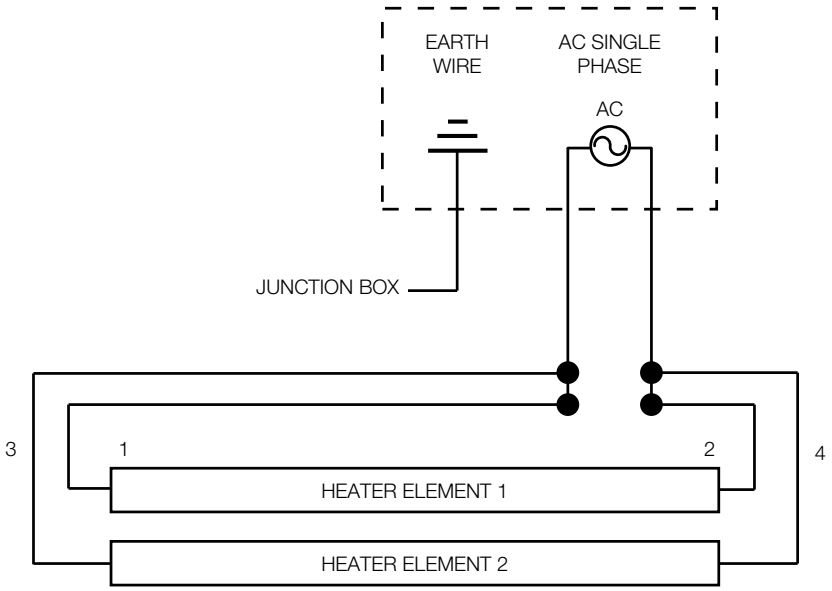
WIRING DIAGRAM

TUNGSTEN SMART-HEAT™ ELECTRIC
STANDARD INSTALLATION - WALL SWITCH
2000W & 3000W MODELS*



⚠ WARNING
AC Single Phase Heater must be permanently installed and hard wired by an authorised/ licenced person.

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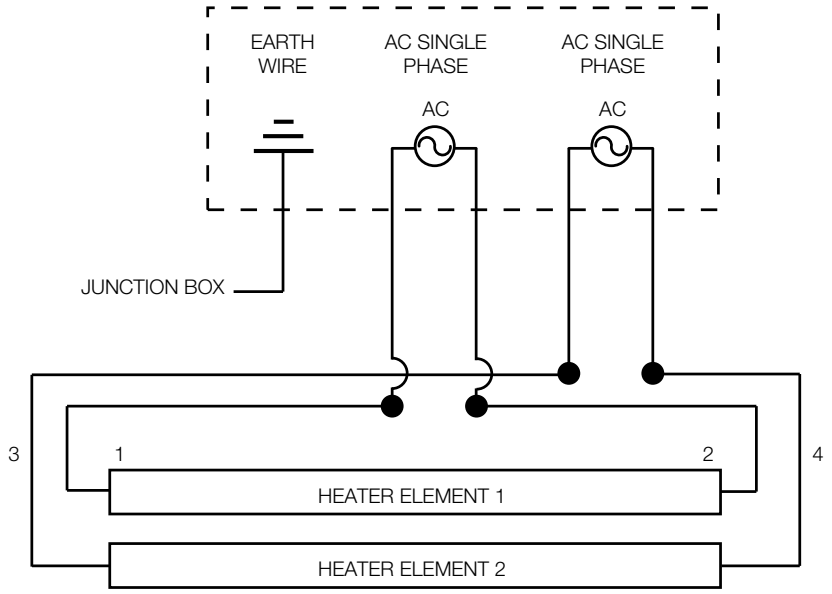


WIRING DIAGRAM

TUNGSTEN SMART-HEAT™ ELECTRIC
STANDARD INSTALLATION - 20 AMP WALL SWITCH - 4000W MODELS*

RISK OF ELECTRIC SHOCK

⚠ WARNING
AC Single Phase Heater must be permanently installed and hard wired by an authorised/ licenced person.



WIRING DIAGRAM

TUNGSTEN SMART-HEAT™ ELECTRIC
OPTIONAL INSTALLATION - 2 X 20 AMP WALL SWITCH - 4000W & 6000W MODELS*
PROVIDES INDIVIDUAL ELEMENT CONTROL

RISK OF ELECTRIC SHOCK

⚠ WARNING
AC Single Phase Heater must be permanently installed and hard wired by an authorised/ licenced person.

*Compliance with local code must be confirmed by installer

When using a Bromic Affinity Control, installer should refer to the Affinity Control Manual for specific wiring requirements.

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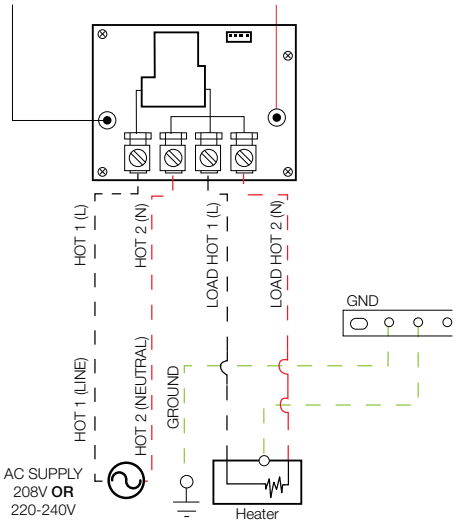
WIRING DIAGRAM FOR USE WITH BROMIC AFFINITY SMART HEAT CONTROLS

CONTROL OPTIONS	
CODE	**DESCRIPTION**
BH3130051	AFFINITY SMART-HEAT CONTROL ON/OFF 1CH 6KW
BH3130052	AFFINITY SMART-HEAT CONTROL ON/OFF 2CH 12KW (6KW/CH)
BH3130053	AFFINITY SMART-HEAT CONTROL ON/OFF 5CH 30KW (6KW/CH)
BH3130061	AFFINITY SMART-HEAT CONTROL DIMMER 1CH 6KW
BH3130062	AFFINITY SMART-HEAT CONTROL DIMMER 2CH 12KW (6KW/CH)
BH3130063	AFFINITY SMART-HEAT CONTROL DIMMER 5CH 30KW (6KW/CH)
BH3130070	AFFINITY SMART-HEAT CONTROL EXPANSION BOARD (BMS/ETHERNET)

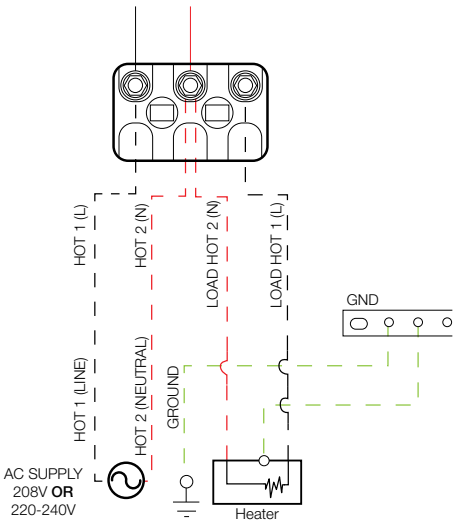
Sample Wiring for Affinity Controllers

Please refer to Affinity Product Manuals for complete installation instructions.

1CH Affinity On/Off Control



1CH Affinity Dimmer Contro

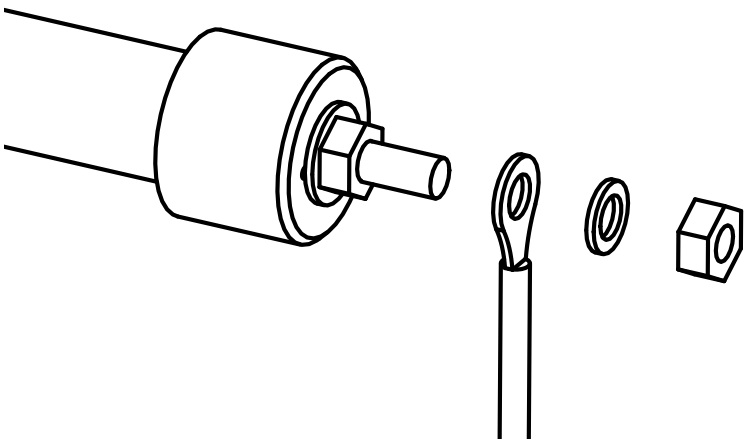


1. Provide 2 Hot Legs from the Affinity Control to the Heater
2. For Dual Element Heaters, pair the L1/L2 lead wires to Hot Leg #1, pair the N1/N2 lead wires to Hot Leg #2.

Notes:

- Refer to Affinity Smart Heat Control Manual for additional information.
- 1CH controls have a capacity of 6000W per channel and will operate two each heaters <3000W or one heater >3400W.
- 2CH controls have a capacity of 6000W per channel and will operate two each heaters <3000W or one heater >3400W per channel.

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SERVICING



⚠ WARNING

Servicing and maintenance MUST be carried out by an authorised and licensed person only. ELECTRICAL SHOCK HAZARD! Serious injury or death may occur. Disconnect from electrical supply before servicing this heater.

MAINTENANCE

For longest product life & to maintain product appearance mount heater under cover & protect from rain & weather whenever possible. The exterior housing of the heater should be cleaned regularly with a soft damp cloth. For locations near the coast, salt in the air can cause rusting of metal. Additional cleaning of the heater with a soft damp cloth fortnightly will increase the life of the products appearance. Ensure that there is no excessive build-up of dirt/dust on the reflectors or elements as this can cause overheating and premature element failure. To clean the reflectors and elements, ensure heater is off and has been off for at least 2 hours after operation, and wipe off any dirt/dust with a soft & dry cloth.

TUBE ELEMENT REPLACEMENT

1. Remove Front Cover of the heater by unscrewing the 3 screws holding it in place.
2. Remove first Element End Cover by unscrewing the 2 screws holding it in place.
3. Remove Outer Hex Nut, Lock Washer and Lead Wire Ring Terminal from the threaded stud.
4. Remove second Element End Cover by unscrewing the 2 screws holding it in place.
5. Remove Outer Hex Nut, Lock Washer and Lead Wire Ring Terminal from the threaded stud.
6. Remove old Tube Element.
7. Install new Tube Element by following element installation instructions on page 8 of this manual.

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ACCESSORIES

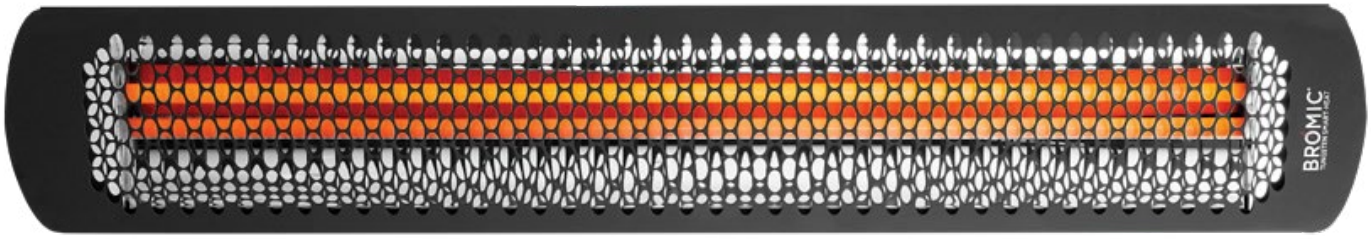
MODEL	DESCRIPTION
BH3440862	Low clearance ceiling recess kit - Select, 2000W/4000W, black
BH3440872	Low clearance ceiling recess kit - Select, 3000W/6000W, black
BH3440863	Low clearance ceiling recess kit - Select, 2000W/4000W, white
BH3440873	Low clearance ceiling recess kit - Select, 3000W/6000W, white
BH3450862	Low clearance ceiling recess kit - Coastal, 2000W/4000W, black
BH3450872	Low clearance ceiling recess kit - Coastal, 3000W/6000W, black
BH3450863	Low clearance ceiling recess kit - Coastal, 2000W/4000W, white
BH3450873	Low clearance ceiling recess kit - Coastal, 3000W/6000W, white
BH3442212	Front cover - triangle, 2000W/4000W, black
BH3442213	Front cover - triangle, 2000W/4000W, white
BH3442214	Front cover - triangle, 2000W/4000W, graphite
BH3442312	Front cover - triangle, 3000W/6000W, black
BH3442313	Front cover - triangle, 3000W/6000W, white
BH3442314	Front cover - triangle, 3000W/6000W, graphite
BH3443212	Front cover - oval, 2000W/4000W, black
BH3443213	Front cover - oval, 2000W/4000W, white
BH3443214	Front cover - oval, 2000W/4000W, graphite
BH3443212	Front cover - oval, 3000W/6000W, black
BH3443213	Front cover - oval, 3000W/6000W, white
BH3443214	Front cover - oval, 3000W/6000W, graphite
BH3440222	Mounting bracket (600mm) - black
BH3440232	Mounting bracket (1200mm) - black
BH3440223	Mounting bracket (600mm) - white
BH3440233	Mounting bracket (1200mm) - white
BH3440224	Mounting bracket (600mm) - graphite
BH3440234	Mounting bracket (1200mm) - graphite
BH3440242	Pitched ceiling mount adaptor - black
BH3440243	Pitched ceiling mount adaptor - white
BH3440244	Pitched ceiling mount adaptor - graphite
BH3440252	Wall mount adaptor - black
BH3440253	Wall mount adaptor - white
BH3440254	Wall mount adaptor - graphite

TROUBLESHOOTING

SYMPTON	POSSIBLE CAUSE (S)	CORRECTIVE ACTION
ELEMENT DOES NOT ENERGIZE	1. Improper connection 2. Defective element	1. Check connection to power outlet 2. Replace element
NOT ENOUGH HEAT	1. Heater too small for application 2. Heater mounted too high or too far 3. Incorrect voltage connected to heater	1. Add additional heater(s) 2. Decrease mounting height or distance 3. Check correct supply voltage is provided
TOO MUCH HEAT	1. Heater too large for application 2. Heater mount too low or too close 3. Incorrect voltage connected to heater	1. Replace with smaller heater 2. Increase mounting height or distance 3. Check correct supply voltage is provided
HOT SPOT IN TUBE	1. Heater is not level 2. Grease or moisture on tube	1. Adjust to level mount 2. Clear tube-replace if problem persists

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We believe true quality extends beyond the product itself. That is why Bromic Heating is committed to delivering a superior end-to-end customer experience, seamlessly integrating our expert sales consultation, robust technical guidance and responsive after-purchase care into every step of your heating journey.

BROMIC® HEATING

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