BROMIC®
HEATING

Installation, Instruction & Service Manual

TUNGSTEN SMART-HEAT™ ELECTRIC

Suitable for Electric Models: Tungsten 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.

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PROP 65 WARNING FOR CALIFORNIA RESIDENTS
⚠ Cancer and Reproductive harm. www.P65warnings.ca.gov
AVERTISSEMENT PROP. 65 POUR LES RESIDENTS DE LA CALIFORNIE
⚠ Cancer et Troubles de l'apparell reproducteur. www.P65warnings.ca.gov
ADVERTENCIA PROP. 65 PARA LOS RESIDENTES DE CALIFORNIA
⚠ Cancer y Daño Reproductivo. www.P65warnings.ca.gov

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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
- Children should be carefully supervised when they are in the area of the heater.
- 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 (IPX4), only IPX4 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
- A means for disconnection of the heater must be incorporated in the fixed wiring according to the local electrical codes.
- 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
- A minimum safety distance of 3' (900mm) should always be left in front of the appliance.
- 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.
- Suitable for indoor and outdoor heating applications such as restaurants, cafes, bars and clubs, factories, office spaces, designated smoking areas, public areas, hotels and more.
- The heaters are available in 2000W, 3000W, 4000W and 6000W models to suit a range of environments.
- High temperature corrosion-resistant coating.
- IPX4 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.
- Heater is equipped with spectral reflector for excellent radiant heat output.
- Registered Design

NORTH AMERICA

MODEL	COLOR	ELEMENTS	BRACKET LENGTH	VOLTAGE	AMPS	WATTS	HEATING AREA	DIMENSIONS	WEIGHT (LBS)
BH0420033	Black	2	9.5"	240V	25A	6000W	up to 144ft^2	56" x 8.5" x 3.5"	22
BH0420032	Black	2	9.5"	240V	16.6A	4000W	up to 120ft^2	44" x 8.5" x 3.5"	19.8
BH0420031	Black	1	6.5"	240V	12.5A	3000W	up to 100ft^2	56" x 8.5" x 3.5"	22
BH0420030	Black	1	6.5"	240V	8.3A	2000W	up to 64ft^2	44" x 8.5" x 3.5"	19.8
BH0420013	White	2	9.5"	240V	25A	6000W	up to 144ft^2	56" x 8.5" x 3.5"	22
BH0420012	White	2	9.5"	240V	16.6A	4000W	up to 120ft^2	44" x 8.5" x 3.5"	19.8
BH0420035	Black	2	9.5"	208V	28.85A	6000W	up to 144ft^2	56" x 8.5" x 3.5"	22
BH0420034	Black	2	9.5"	208V	19.23A	4000W	up to 120ft^2	44" x 8.5" x 3.5"	19.8
BH0420038	Black	1	6.5"	208V	14.42A	3000W	up to 100ft^2	56" x 8.5" x 3.5"	22
BH0420039	Black	1	6.5"	208V	9.62A	2000W	up to 64ft^2	44" x 8.5" x 3.5"	19.8
BH0420036	White	2	9.5"	208V	28.85A	6000W	up to 144ft^2	56" x 8.5" x 3.5"	22
BH0420037	White	2	9.5"	208V	19.23A	4000W	up to 120ft^2	44" x 8.5" x 3.5"	19.8
BH0420043	Black	2	9.5"	277V	21.66A	6000W	up to 144ft^2	56" x 8.5" x 3.5"	22
BH0420042	Black	2	9.5"	277V	14.44A	4000W	up to 120ft^2	44" x 8.5" x 3.5"	19.8
BH0420041	Black	1	6.5"	277V	10.83A	3000W	up to 100ft^2	56" x 8.5" x 3.5"	22
BH0420040	Black	1	6.5"	277V	7.22A	2000W	up to 64ft^2	44" x 8.5" x 3.5"	19.8
BH0420045	White	2	9.5"	277V	21.66A	6000W	up to 144ft^2	56" x 8.5" x 3.5"	22
BH0420044	White	2	9.5"	277V	14.44A	4000W	up to 120ft^2	44" x 8.5" x 3.5"	19.8

AUSTRALIA/NEW ZEALAND

MODEL	COLOR	ELEMENTS	BRACKET LENGTH	VOLTAGE	AMPS	WATTS	HEATING AREA	DIMENSIONS	WEIGHT (LBS)
2620265	Black	2	9.5"	240V	25A	6000W	up to 144ft^2	56" x 8.5" x 3.5"	22
2620264	Black	2	9.5"	240V	16.6A	4000W	up to 120ft^2	44" x 8.5" x 3.5"	19.8
2620263	Black	1	6.5"	240V	12.5A	3000W	up to 100ft^2	56" x 8.5" x 3.5"	22
2620262	Black	1	6.5"	240V	8.3A	2000W	up to 64ft^2	44" x 8.5" x 3.5"	19.8
2620269	White	2	9.5"	240V	25A	6000W	up to 144ft^2	56" x 8.5" x 3.5"	22
2620268	White	2	9.5"	240V	16.6A	4000W	up to 120ft^2	44" x 8.5" x 3.5"	19.8

EUROPE

MODEL	COLOR	ELEMENTS	BRACKET LENGTH	VOLTAGE	AMPS	WATTS	HEATING AREA	DIMENSIONS	WEIGHT (LBS)
BH0420025	Black	2	9.5"	240V	25A	6000W	up to 144ft^2	56" x 8.5" x 3.5"	22
BH0420024	Black	2	9.5"	240V	16.6A	4000W	up to 120ft^2	44" x 8.5" x 3.5"	19.8
BH0420023	Black	1	6.5"	240V	12.5A	3000W	up to 100ft^2	56" x 8.5" x 3.5"	22
BH0420022	Black	1	6.5"	240V	8.3A	2000W	up to 64ft^2	44" x 8.5" x 3.5"	19.8
BH0420029	White	2	9.5"	240V	25A	6000W	up to 144ft^2	56" x 8.5" x 3.5"	22
BH0420028	White	2	9.5"	240V	16.6A	4000W	up to 120ft^2	44" x 8.5" x 3.5"	19.8
BH0420027	White	1	6.5"	240V	12.5A	3000W	up to 100ft^2	56" x 8.5" x 3.5"	22
BH0420026	White	1	6.5"	240V	8.3A	2000W	up to 64ft^2	44" x 8.5" x 3.5"	19.8

Certification: INTERTEK ETL / cETL 4005951
Note: All models may not be available in all regions

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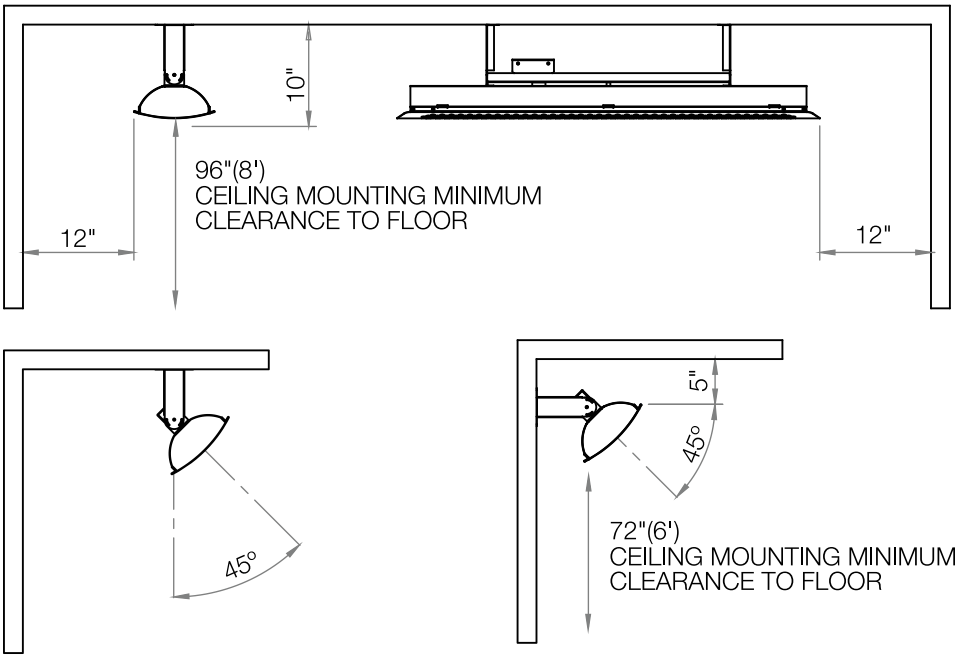


HEATER INSTALLATION

INSTALLATION CLEARANCES

FOR 2000W & 3000W MODELS

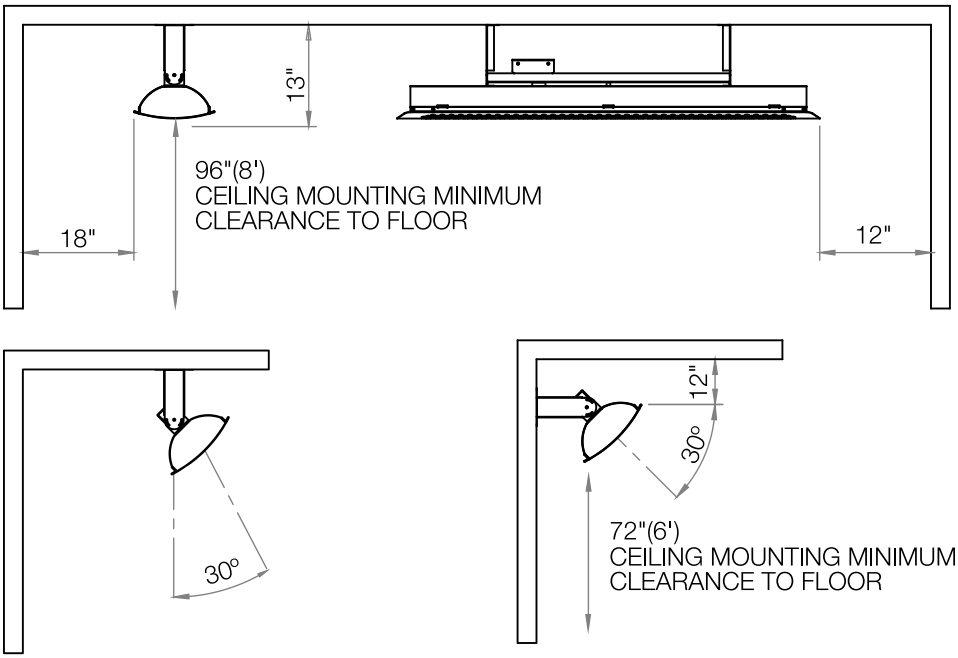
2000W & 3000w models must be installed with the minimum installation clearances as illustrated. 2000W & 3000W models are supplied with 6.5" mounting brackets to be used for both ceiling & wall mounting.

FOR CANADA (CETL) APPROVAL DO NOT INSTALL LESS THAN 96" (8') FROM THE FLOOR.

⚠ WARNING

MINIMUM DISTANCE BETWEEN HEATERS MEASURED FROM EDGE OF HEATER MUST BE AT LEAST 20"

The stated clearance to combustible or heat sensitive materials represents surface temperature of 117ºF 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 assure 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" mounting brackets to be used for both ceiling & wall mounting. Alternatively, short mounting brackets can be used for wall mounting of the 4000W & 6000W models to position the heater closer to the wall. Short mounting brackets must be purchased separately.

FOR CANADA (CETL) APPROVAL DO NOT INSTALL LESS THAN 96" (8') FROM THE FLOOR.

⚠ WARNING

MINIMUM DISTANCE BETWEEN HEATERS MEASURED FROM EDGE OF HEATER MUST BE AT LEAST 20"

The stated clearance to combustible or heat sensitive materials represents surface temperature of 117ºF above room temperature. Building material with a low heat tolerance (such as plastic, vinyl siding, canvas, tri-ply etc.) may subject to degradation. It is the installer's responsibility to assure 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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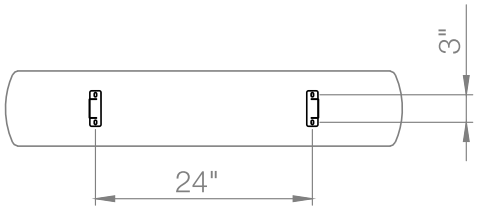
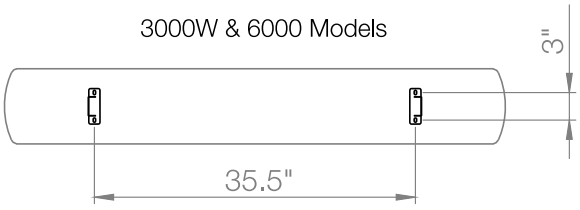
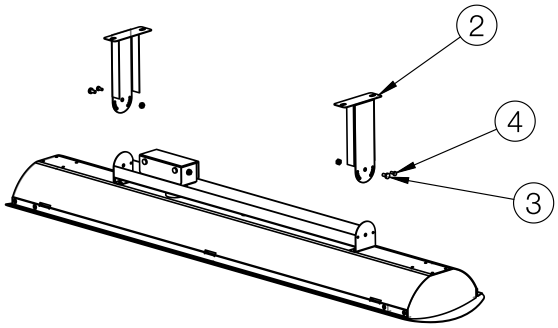
1 Mounting Hole Centres & Heater Position

2000W & 4000 Models



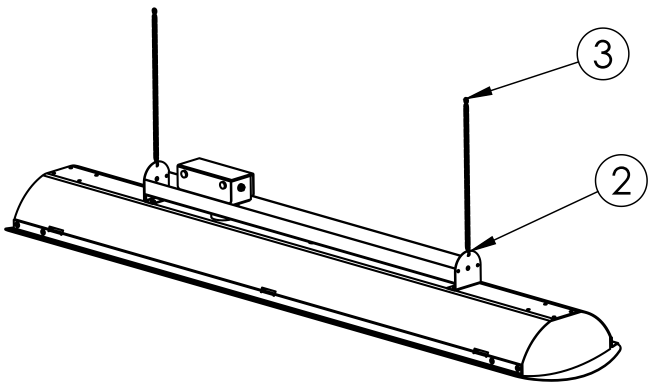
3000W & 6000 Models





CEILING & WALL MOUNTING

1. Mark mounting hole centres on ceiling or wall.
2. Attach mounting brackets to ceiling or wall using appropriate fasteners (not supplied).
3. Bring heater up to mounting brackets and lock into position with M5x10 screw & nut.
4. Rotate heater to required angle. Lock into position with self tapping screw.
5. Make electrical connection from heater to power supply.



CHAIN SUSPENSION (SOLD SEPARATELY)

1. Heater must be installed with a heater surface 96"(8') above the floor level. Chain to be provided and sized by the installer to hold the weight of the heater.
2. Attach chains to heater with "S" hooks. Crimp "S" hooks closed after assembly.
3. Prepare ceiling structure for heater. Attach chains to ceiling structure & suspend heater.
4. Make electrical connection from heater to power supply. If required fix supply power cord to ceiling chain with cable ties.

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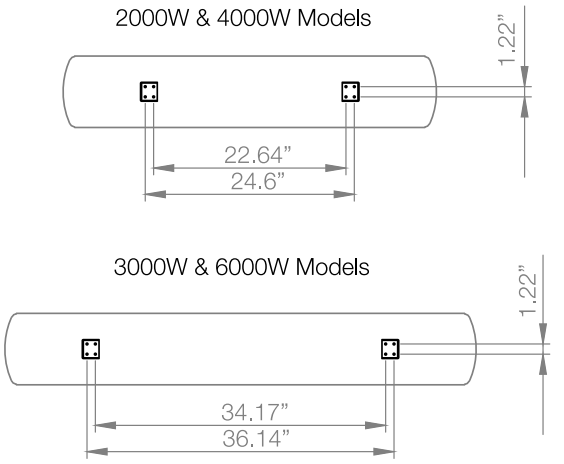
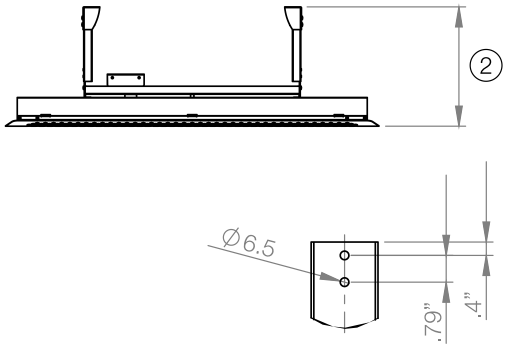
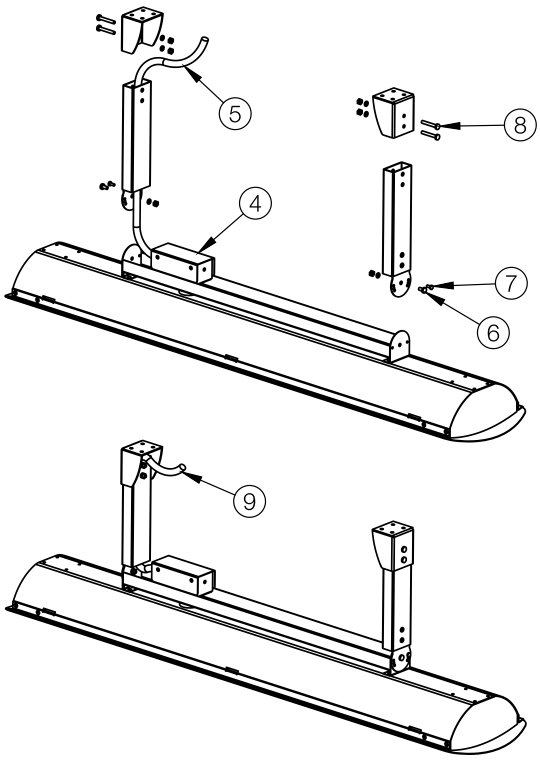
① Mounting Hole Centres & Heater Position





③ Suspension Tube Mounting Hole



TUBE SUSPENSION (SOLD SEPARATELY)

1. Mark mounting hole centres on ceiling. Attach mounting brackets to ceiling using appropriate fasteners (not supplied).

2. Heater must be installed with heater surface at least 96"(8') above the floor level. Supplied suspension tubes position heater surface 39.39" below the ceiling surface. If required cut down length of suspension tubes to ensure correct installation height. Minimum distance from front surface of heater to ceiling surface must be 9.84" for 2000W & 3000W models and 13" for 4000W & 6000W models.

3. If suspension tube are cut down, drill new mounting holes in each tube.

4. Make electrical connection in junction box as per electrical installation instructions in this manual.

5. Feed power cord through suspension tube.

6. Assemble suspension tubes to rear bracket with M5 screw, spring washer and nut.

7. Rotate heater to required angle. 15º, 30º or 45º in either direction. Note: angle varies by model. Lock into position with self tapping screw.

8. Raise heater assembly into position. Attach suspension tubes to ceiling brackets with M5x1-3/8" screws, spring washers & nuts.

9. Make electrical connection from suspension tube power cord to power ceiling as per electrical installation instructions in this manual.

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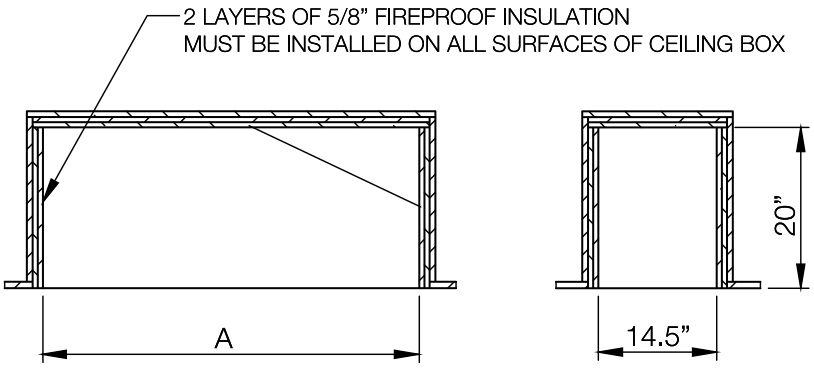
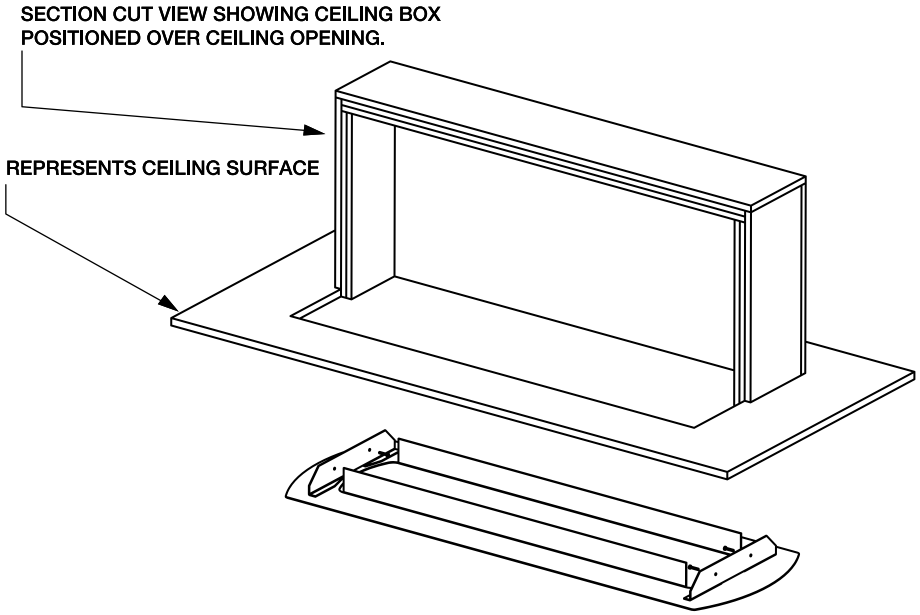
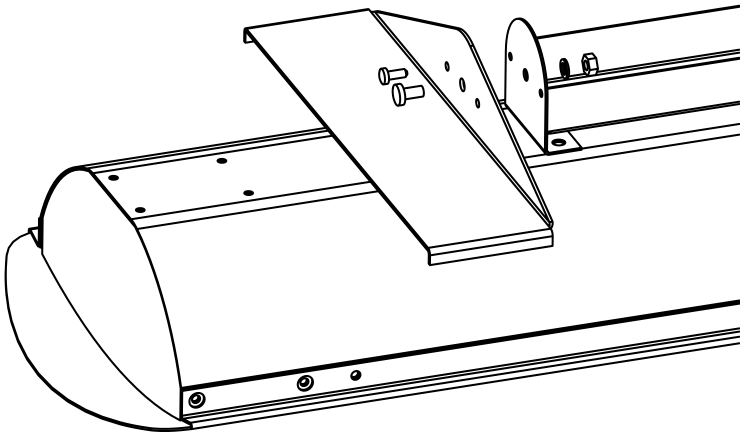


MODEL	DIMENSION "A"
2000W & 4000W	46"
3000W & 6000W	57.5"





CEILING RECESS KIT (SOLD SEPARATELY)

1. Prepare ceiling cut out and ceiling box. Minimum ceiling box dimensions must be as shown in table. Heater must be installed with heater surface at 96"(8') above the floor level.
2. From below, bring ceiling frame up into ceiling cut out.
3. Fasten ceiling frame to ceiling box through mounting holes with fasteners (not supplied).
4. Prepare heater for installation. Attach mounting brackets to both ends of heater with supplied fasteners.

Notes:

- Ceiling box to be provided by reinstall.
- Suitable material includes Hardie, cement board or similar.
- If ceiling box sits above joists it is recommended to line joists with fireproof insulation.

⚠ WARNING

MINIMUM DISTANCE BETWEEN HEATERS MEASURED FROM EDGE OF HEATER MUST BE AT LEAST 20"

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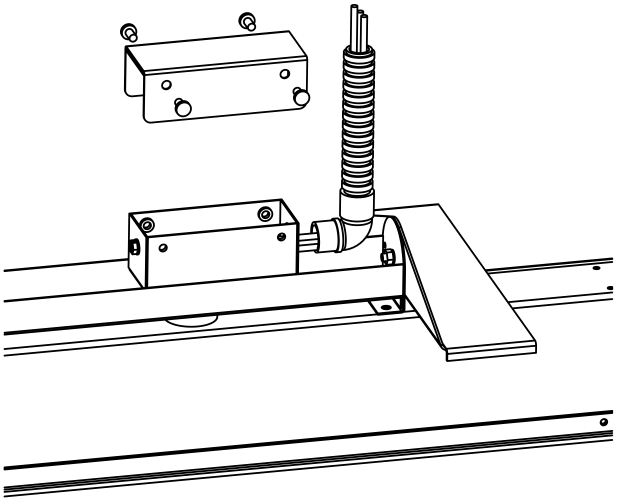

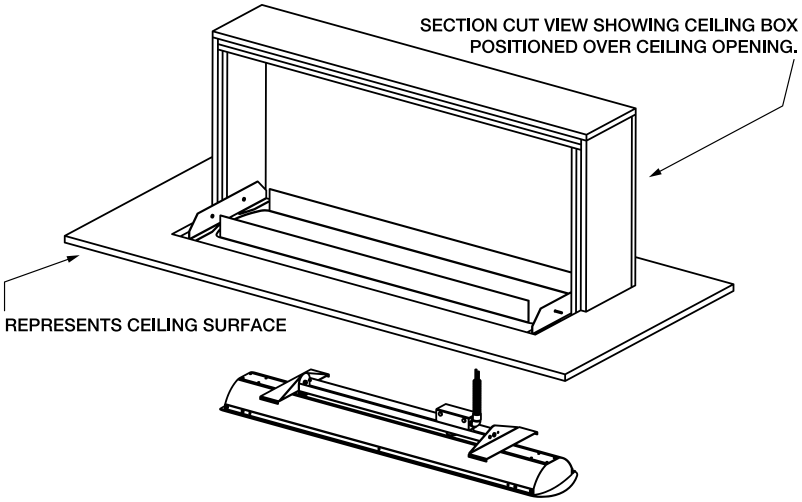

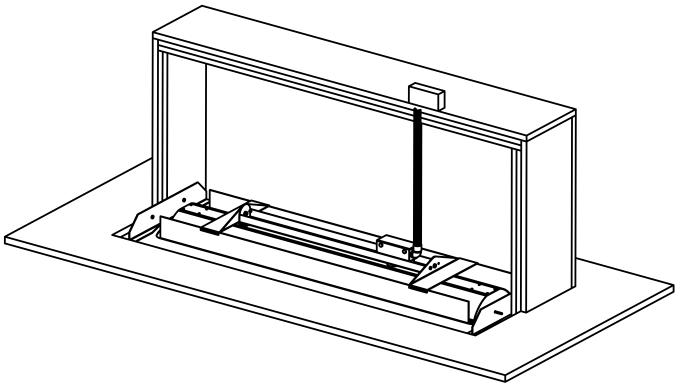

5. Assemble supplied terminals blocks, wire conduit & junction box cover. The Ceiling Recess Kit is supplied with 5 wires. Not all parts are required for all installations. See wiring diagrams for installation options. For double element heater models the elements can be wired to be turned on independently or together. Ceramic or high heat tolerant wire nuts are recommended.

6. Raise one side of heater up into the ceiling box and then raise whole heater into cavity.

7. Rotate the heater into horizontal position in the ceiling box and then lower down onto ceiling frame.

8. Ensure all four side mounting brackets are hooked over the ceiling frame and centre the heater inside the frame.

9. Make electrical connection from heater to power supply as per electrical installation instructions in this manual. Connection to be made outside the ceiling box on the side or top of the ceiling box.

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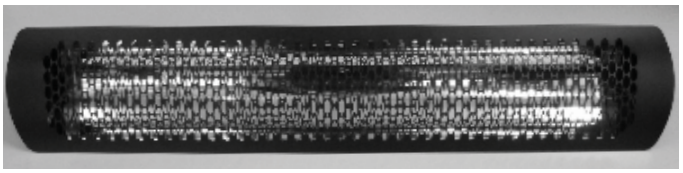
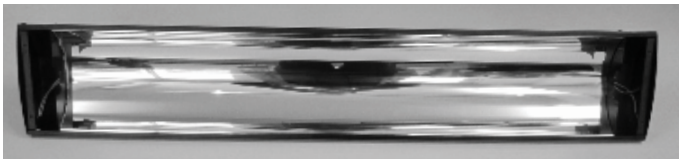


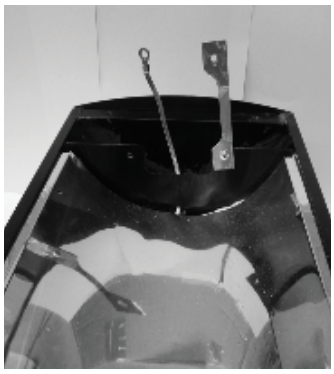


ELEMENT INSTALLATION

⚠ WARNING

This Heater MUST be permanently Installed and hard wired by an authorised/licenced person. Do Not perform maintenance, or carry out installation or assembly procedure while electrical power is switched on.

1. Remove the front cover from the heater.

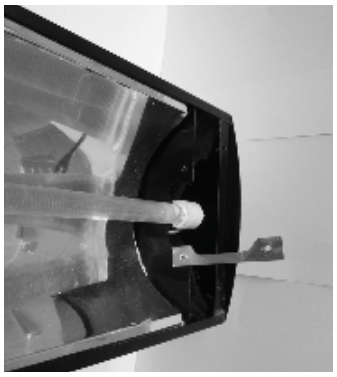


2000W & 3000W Models

4000W & 6000W Models

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 L1 & N1. The second element must be connected to the cable marked L2 & N2.

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 other end of element. Minimum torque of 6.5Nm must be applied.



2000W & 3000W Models

4000W & 6000W Models

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

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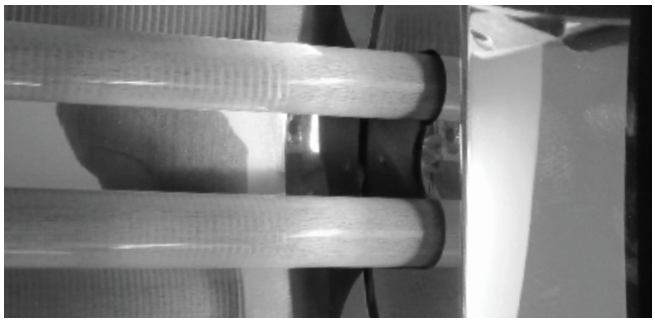
5. Close element lock bracket & fasten with self tapping screw. Repeat for other end of heater.

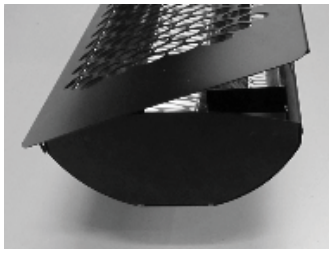
2000W & 3000W Models

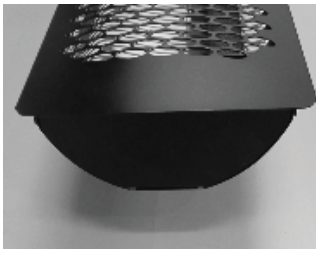
4000W & 6000W Models

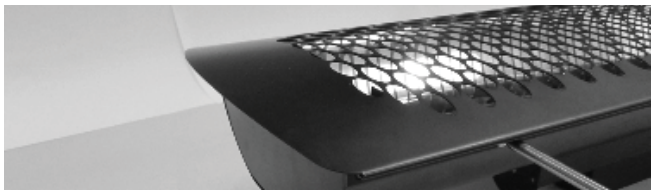
6. Assemble end caps at both ends of the heater with 2 self tapping screws. For 4000W & 6000W models ensure that the middle tab of the end caps are slotted behind the element support bracket.

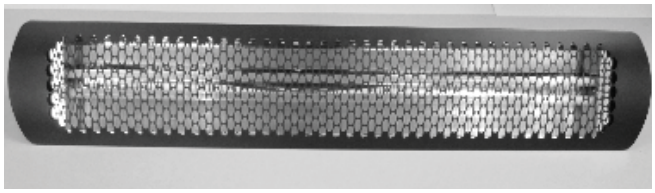
⚠ **Note:** Protective end caps must be installed to protect wiring from heat exposure. Without this protection wiring will be damaged and heater will be inoperable.











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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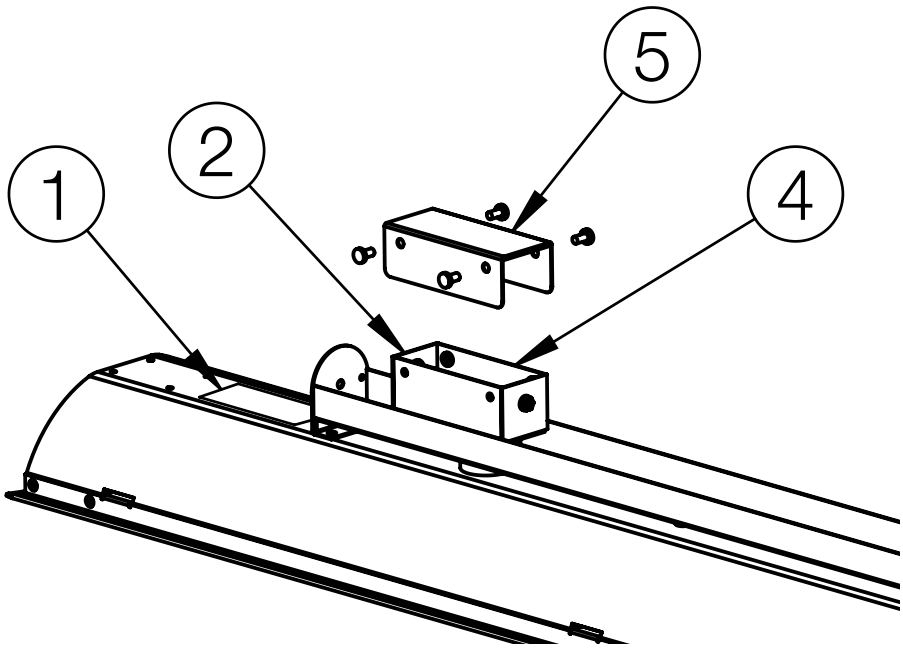

ELECTRICAL INSTALLATION

⚠ WARNING

Heater MUST be permanently Installed and hard wired by an authorised/licenced person. Do Not perform maintenance, or carry out installation or assembly procedure 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 label for correct voltage and wattage. Make sure power source conforms to the heaters requirements.

2. Junction box has a 0.86” (22mm) to a standard 1/2 “weather tight conduit fittings. Install cord grip with minimum rating of IPX4 to maintain the water ingress protection rating of the heater. Cord grip must have minimum temperature rating of 90°C (194°F). Failure to install correctly will avoid the manufacturer’s warranty.

3. For supply connections, use suitable power supply wire at least 90˚C (194˚F). Use Copper or aluminium wire. For 2000W and 3000W models: use only one branch circuit.

4. Make electrical connections in accordance with local electrical code regulations. 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 IPX4 rating. Ground wire screw is located in the end of junction box.

   Note:
   2000W & 3000W models:
   - Electrical leads are labeled L1 & N1.

   4000W & 6000W models:
   - Electrical leads are labeled L1/N1 for first element and L2/N2 for second element.

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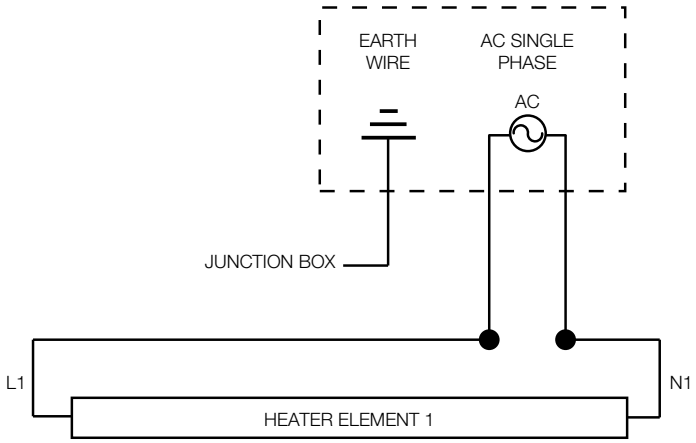
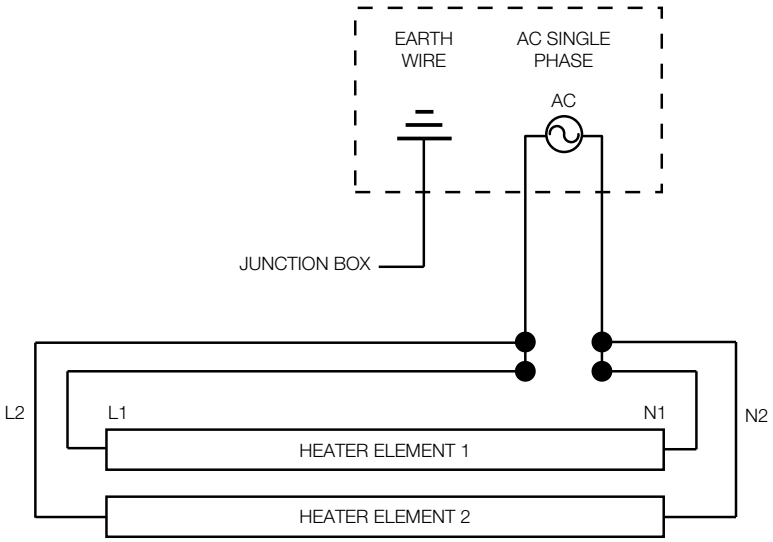


WIRING DIAGRAM

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

RISK OF ELECTRIC SHOCK

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

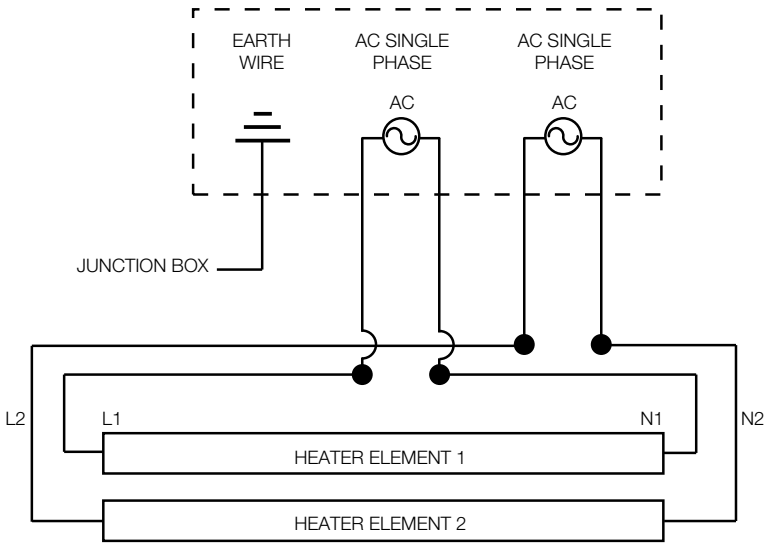


WIRING DIAGRAM

TUNGSTEN SMART-HEAT™ ELECTRIC
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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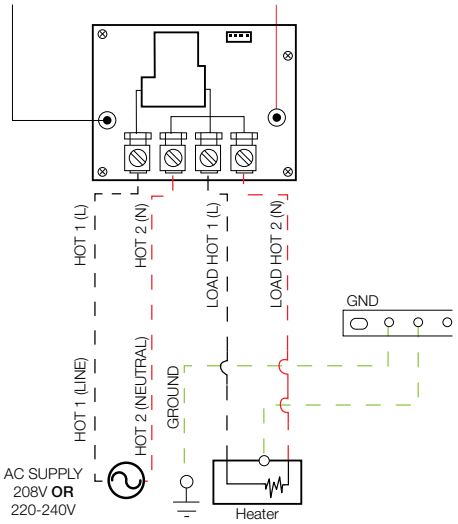
WIRING DIAGRAM FOR USE WITH BROMIC AFFINITY SMART HEAT CONTROLS

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)

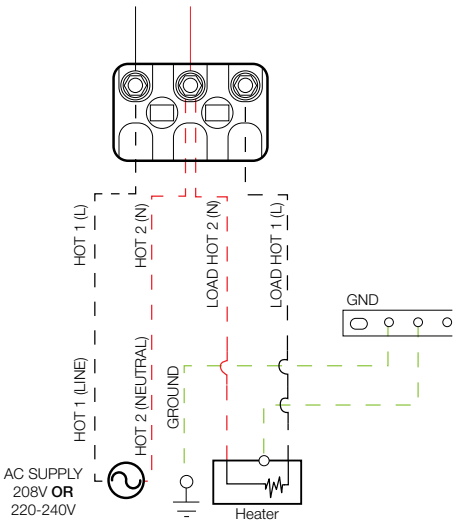
Sample Wiring for Affinity Controllers

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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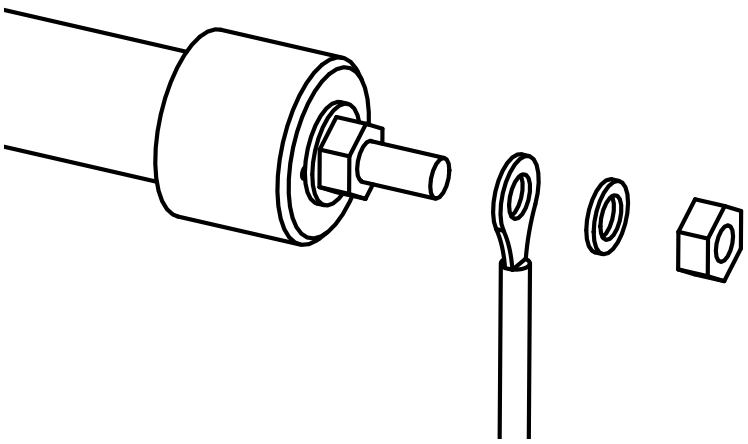

SERVICING

⚠ 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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REPLACEMENT PART LIST

DESCRIPTION	2000W	3000W	4000W	6000W
Element Replacement - 240V	BH8180001	BH8180002	BH8180001	BH8180002
Element Replacement - 208V	BH8180017	BH8180016	BH8180017	BH8180016
Element Replacement - 2770V	BH8180015	BH8180014	BH8180015	BH8180014
Element End Cover Ser	BH8180005	BH8180006	BH8180005	BH8180006
Front Cover - Black	BH8180003	BH8180004	BH8180003	BH8180004
Junction Box Cover & Seal Set - Black	BH8180007	BH8180007	BH8180007	BH8180007
Mounting Bracket set (Short) - Black	BH8180008	BH8180008	BH8180008	BH8180008
Mounting Bracket set (Long) - Black	BH8180009	BH8180009	BH8180009	BH8180009
Ceiling Recess Kit - Black	BH8180010	BH8180011	BH8180010	BH8180011
Tube Suspension Kit - Black	BH8180012	BH8180012	BH8180012	BH8180012
Front Cover - White	BH8180018	BH8180019	BH8180018	BH8180019
Junction Box Cover & Seal Set - White	BH8180020	BH8180020	BH8180020	BH8180020
Mounting Bracket set (Short) - White	BH8180021	BH8180021	BH8180021	BH8180021
Mounting Bracket set (Long) - White	BH8180022	BH8180022	BH8180022	BH8180022
Ceiling Recess Kit - White	BH8180096	BH8180095	BH8180096	BH8180095
Tube Suspension Kit - White	BH8180006	BH8180006	BH8180006	BH8180006

TROUBLESHOOTING

SYMPTON	POSSIBLE CAUSE (S)	CORRECTIVE ACTION
ELEMENT DOES NOT ENERGIZE	1. Defective element 2. Improper connection	1. Replace element 2. Check connection to power outlet
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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