BROMIC HEATING

TUNGSTEN SMART-HEAT™ ELECTRIC HEATER

BY BROMIC

INSTALLATION, INSTRUCTION AND SERVICE MANUAL

SUITABLE FOR ELECTRIC HEATER MODELS:
TUNGSTEN 2000W, 3000W, 4000W- AND TUNGSTEN 6000W

⚠ IMPORTANT

READ THIS MANUAL CAREFULLY.
SEE INSIDE COVER FOR IMPORTANT INFORMATION ABOUT THIS MANUAL.KEEP INSTRUCTION WITH APPLIANCE FOR FUTURE REFERENCE.

Version 1.8 USA

HEATER INSTALLATION

⚠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.

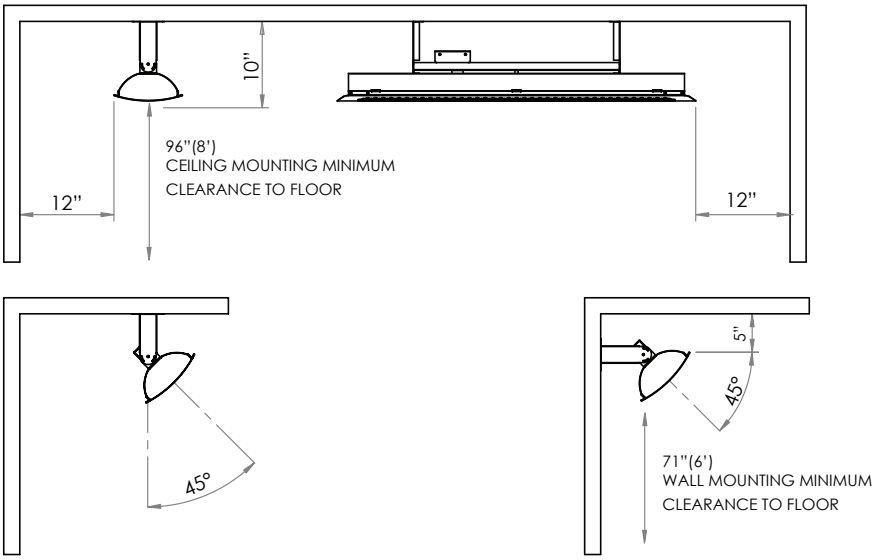
⚠WARNING

DO NOT MOUNT THE HEATER VERTICALLY!
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.

INSTALLATION CLEARANCES

FOR 2000W & 3000W MODELS

2000W & 3000w models must be installed with the minimum installation clearances shown in below diagrams. 2000W & 3000W models are supplied with short mounting brackets to be used for both ceiling & wall mounting.



FOR CANADA (CETL) APPROVAL
DO NOT INSTALL LESS THAN 96" (8')
FROM THE FLOO3

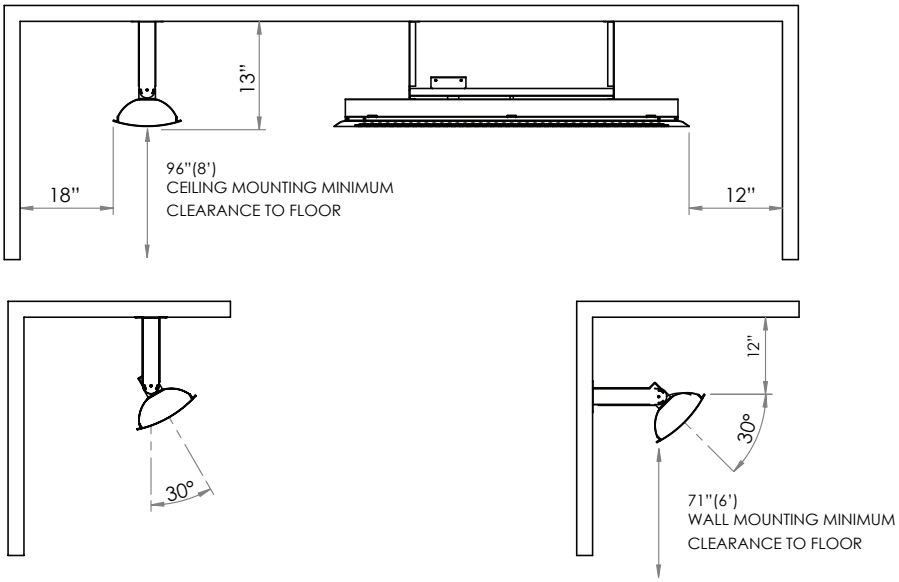
⚠WARNING

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

INSTALLATION CLEARANCES

FOR 4000W & 6000W MODELS

4000W & 6000W models must be installed with the minimum installation clearances shown in below diagrams. 4000W & 6000W models are supplied with long 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.



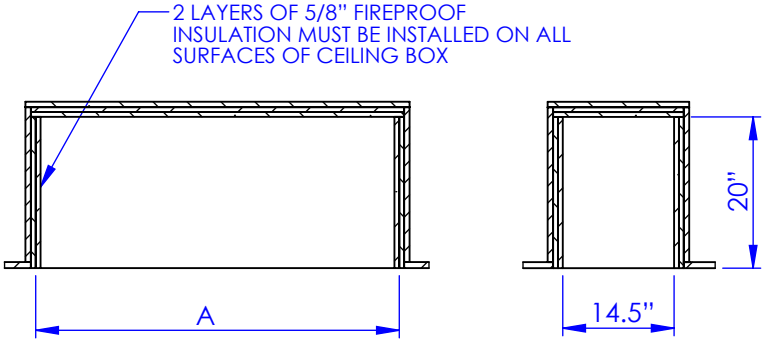
FOR CANADA (CETL) APPROVAL
DO NOT INSTALL LESS THAN 96" (8')
FROM THE FLOOR.

⚠WARNING

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

CEILING RECESS KIT (SOLD SEPARATELY)

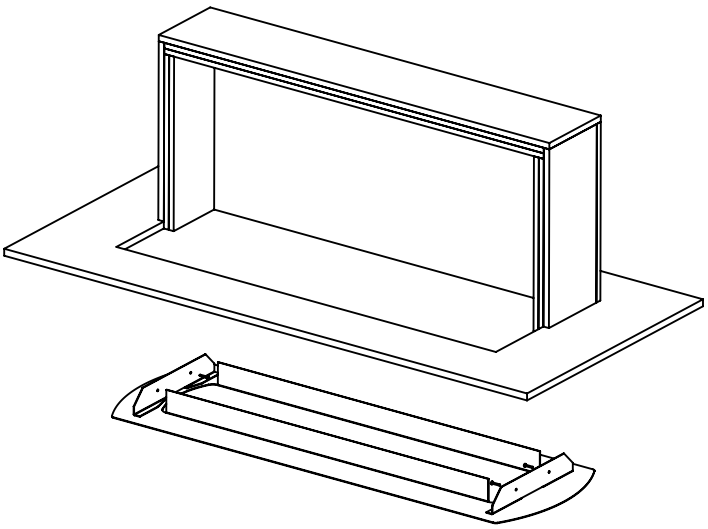
1. Prepare ceiling cut out & ceiling box.
Minimum ceiling box dimensions must be as shown in table. Heater must be installed with heater surface at least 2400mm above the oor level.



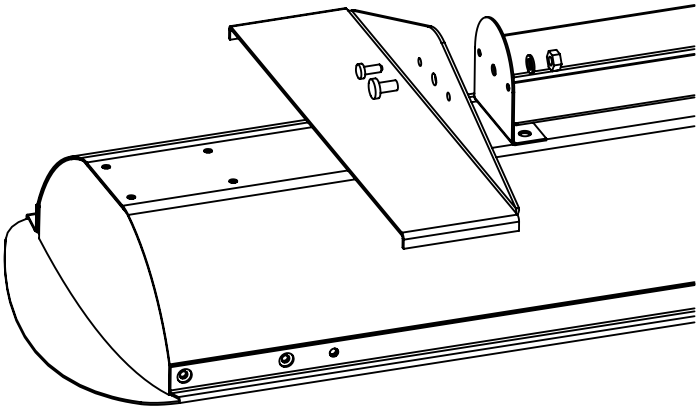
⚠ WARNING
MINIMUM DISTANCE BETWEEN HEATERS MEASURED FROM EDGE OF HEATER MUST BE AT LEAST 20"

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

2. From below, bring ceiling frame up and 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.

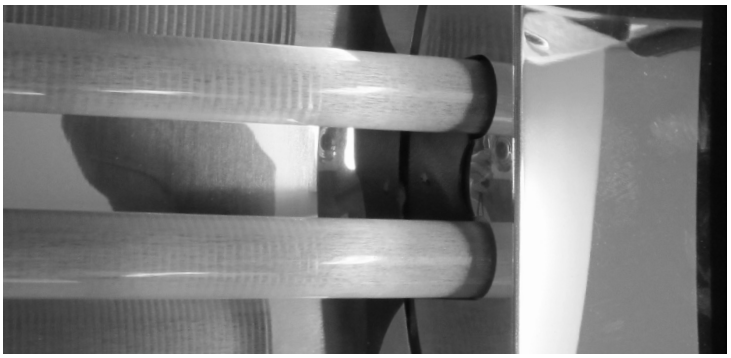


5. Close element lock bracket & fasten with self tapping screw. Repeat for other end of heater.

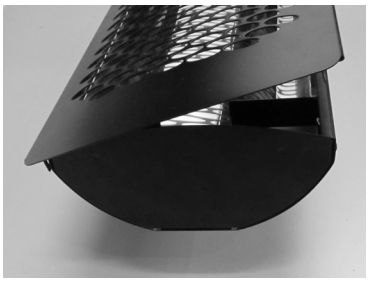
6. Assemble end caps at both ends of the heater with 2 self tapping screws. For 4000W & 6000W models ensure that the middle tab of the end caps are slotted behind the element support bracket.

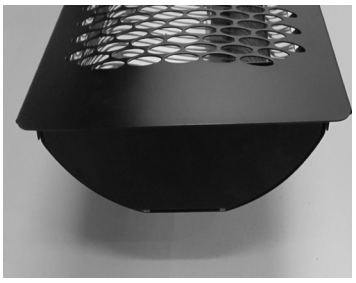
2000W & 3000W Models

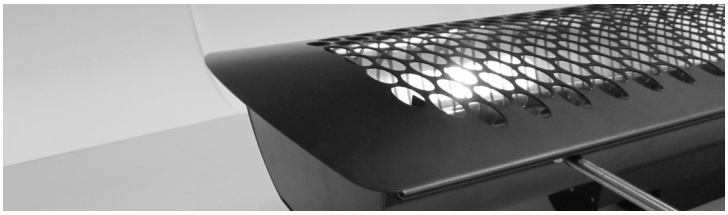
4000W & 6000W Models

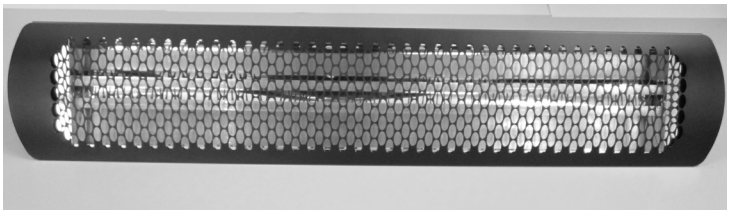


7. Assemble front cover onto the heater. Hook front cover to one side of the heater and push other side down. Fasten into position with 3 self tapping screws.









⚠ 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.

⚠ WARNING

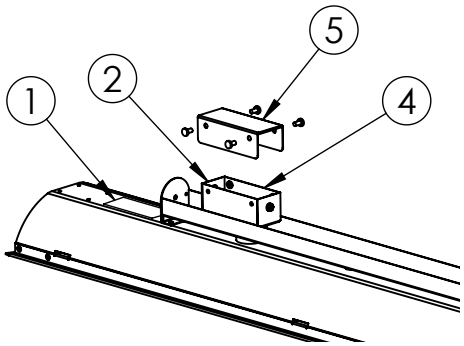
ELECTRICAL SHOCK HAZARD! Serious injury or death may occur. Disconnect from electrical supply before installing or servicing this heater. Read and follow installation clearance requirements outlined in this manual. The Appliance MUST be connected to a properly grounded electrical source.

IMPORTANT: Electronic dimmer controls generate heat during operation. For Bromic heaters installed Bromic Smart-Heat Electric Wireless Dimmer BH3130011-1 or ON/OFF Control BH3130010-1 it is essential to ensure dimmers are mounted in a clean, dry and well ventilated position with clearance on all sides. It must be ensured the dimmers are not installed in a confined space, close to other heat generating appliances or in the case of a multi-dimmer installation, not too close together. Dimmers must remain cool at all times.

Please consult Bromic dimmer installation instructions for further details or for further questions please contact Bromic technical support services.

ELECTRICAL INSTALLATION

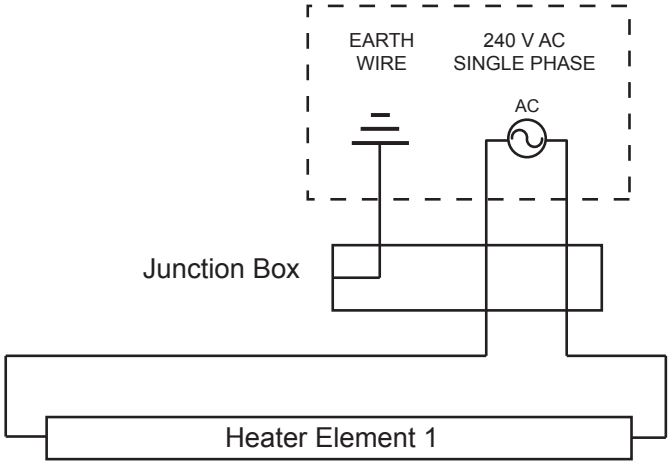
1. Check product label for correct voltage and wattage. Make sure power source conforms to the heaters requirements.
2. Junction box has a 0.86" (22mm) to a standard 1/2 "weather tight conduit fittings. Install cord grip with minimum rating of IPX4 to maintain the water ingress protection rating of the 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 Model: Use only on 15 Ampere branch circuit. For 3000W Model: Use only on 20Ampere 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. For 2000W & 3000W models the junction box has one active and one neutral pig tail. For 4000W & 6000W models the junction box has the two marked and two unmarked pig tails. Use the two marked pig tails for the first element. Use the two unmarked pig tails for the second elements. Earth ground wire screw is located in the end of junction box
5. Assemble the junction box cover & gasket. Ensure that the junction box cover gasket (supplied with unit) is installed to maintain the IPX4 water ingress protection rating of the heater. Failure to install correctly will void the manufacturer's warranty



WIRING DIAGRAM
TUNGSTEN SMART-HEAT ELECTRIC
STANDARD INSTALLATION
2000W & 3000W MODELS*

WARNING

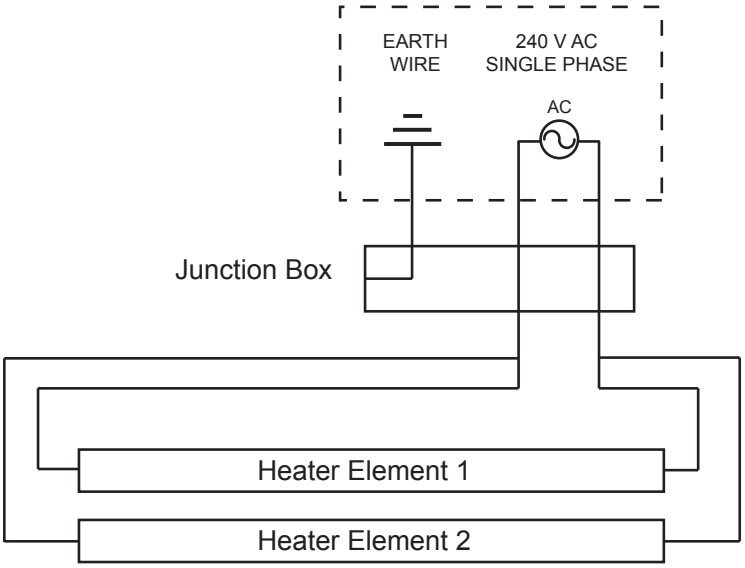
240 V AC Single Phase Heater must be permanently installed and hard wired by an authorised/licenced person.



WIRING DIAGRAM
TUNGSTEN SMART-HEAT ELECTRIC
STANDARD INSTALLATION
4000W & 6000W MODELS*

WARNING

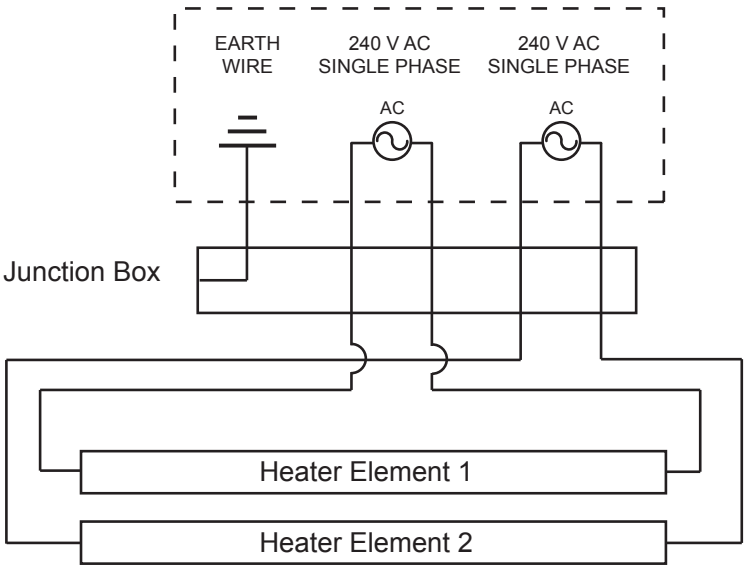
240 V AC Single Phase Heater must be permanently installed and hard wired by an authorised/licenced person.



WIRING DIAGRAM
TUNGSTEN SMART-HEAT ELECTRIC
OPTIONAL INSTALLATION
4000W & 6000W MODELS*

WARNING

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



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*For wiring instructions using Bromic Tungsten Smart-Heat Electric Wireless Dimmer BH3130011-1 or ON/OFF Control BH3130010-1 refer to instructions provided with controller.

⚠ WARNING

Servicing and maintenance MUST be carried out by an authorised and licensed person only

⚠ WARNING

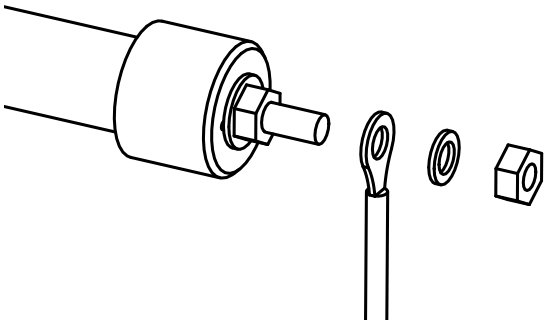
ELECTRICAL SHOCK HAZARD!
Serious injury or death may occur.
Disconnect from electrical supply before servicing this heater.

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.



REPLACEMENT PART LIST

No.	Description	BH0420002 (2000W)	BH0420003 (3000W)	BH0420004 (4000W)	BH0420005 (6000W)
1	Tube Element	BH8180001	BH8180002	BH8180001	BH8180002
2	Front Cover	BH8180003	BH8180004	BH8180003	BH8180004
3	Element End Cover Set	BH8180005	BH8180006	BH8180005	BH8180006
4	Junction Box Cover & Seal Set	BH8180007	BH8180007	BH8180007	BH8180007
5	Mounting Bracket Set (Short)	BH8180008	BH8180008	BH8180008	BH8180008
6	Mounting Bracket Set (Long)	BH8180009	BH8180009	BH8180009	BH8180009
7	Ceiling Recess Kit	BH8180010	BH8180011	BH8180010	BH8180011
8	Tube Suspension Kit	BH8180012	BH8180012	BH8180012	BH8180012
9	Chain Suspension Kit	BH8180013	BH8180013	BH8180013	BH8180013

TROUBLESHOOTING

SYMPTOM	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	1. Add additional heater(s) 2. Decrease mounting height or distance
Too much heat	1. Heater too large for application 2. Heater mount too low or too close	1. Replace with smaller heater 2. Increase mounting height or distance
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