

SPARKELEC Pty Ltd – Bathroom Heater Installation Instructions

For Models: SBH4, SBH2

Please read all instructions before commencing installation even if you feel you are quite familiar with this type of product.

The 3 in 1 Heater Light Fan must be installed to comply with the appropriate council regulations and the Australian and New Zealand wiring rules AS/NZS3000:2000 or latest edition thereof.

A licensed Electrician is required to connect this unit to the mains supply. The mains supply and interconnecting cables required for installation of this appliance are not included, suitable cabling no lighter than ordinary duty cable rated at a minimum 10 AMP load rated is to be used when installing/wiring this appliance.

PRODUCT SPECIFICATIONS

MODEL	VOLTAGE & FREQUENCY	HEATER POWER	LIGHT POWER	EXHAUSTFAN POWER
SBH4	220-240V~, 50Hz	4x275W	1 x 12W R80 LED lamp	30w
SBH2	220-240V~, 50Hz	2x275W	1 x 8W R63 LED lamp	30w

FOR YOUR SAFETY:

This product 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 product by a person responsible for their safety. Children should be supervised to ensure that they do not play with the product. Means for disconnection must be incorporated in the fixed wiring in accordance with the AS/NZS wiring rules.

1. This product must be used only as described in this manual. Any other use not recommended by the manufacturer may cause fire, electric shock, or injury to persons. If you have questions, contact the manufacture or local agent.
2. All wiring must be carried out by a licensed electrician in accordance with all applicable national / local codes and standards. Also check with the local council regulations regarding installation of exhaust fans.
3. Ensure the power is OFF before the installation.
4. When cutting into the ceiling material, care must be taken to ensure you do not damage electrical wiring and other hidden utilities
5. The product must be properly earthed/grounded.
6. The lamps are extremely hot when in use. Do not touch the lamps with any part of your body when in use. Allow all lamps to cool sufficiently before touching or replacement.
7. For the purpose of avoiding any fumes leaking into your bathroom, the duct for the heater must not be laid together with ducts for air-fuelled water heaters or other open-fire appliances.
8. Power cable used for wiring must be rated for a minimum 10A load.

IMPORTANT CONSIDERATIONS BEFORE INSTALLING

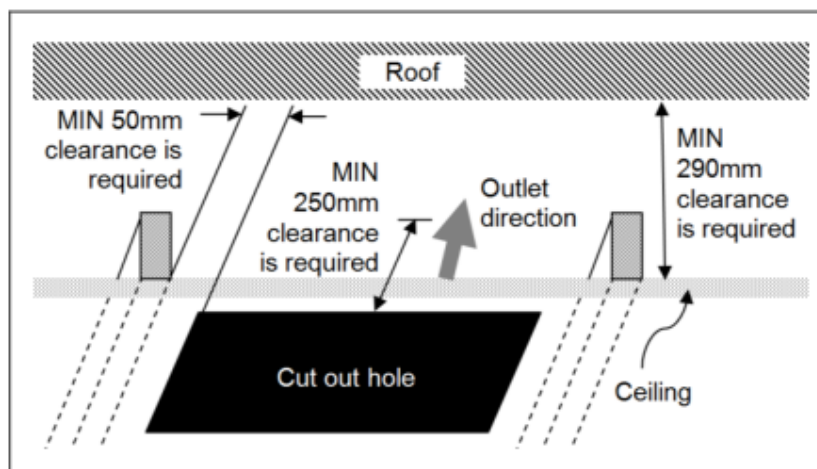
A few minutes planning can make a big difference to the installation time and also to your satisfaction with the function of your Bathroom heater.

1. Before commencing any cutting, check in the ceiling space that there are no obstructions such as ceiling joists and that there is sufficient height clearance for the housing. Check that the electrical wiring can be routed form the wall switches to the mounting location.

2. Ceiling insulation should be kept well clear of the unit and all ducting equipment.
3. The product should not be installed directly above a shower or bathtub. The unit must not be installed where it will be subject to direct splashing.
4. This product is designed for installation in flat ceilings only. Don't mount it on a sloping ceiling or a vertical wall.
5. Do not install the unit under power point.
6. Do not install heater fan unit near flammable objects.
7. The product must not be located immediately below a socket outlet.
8. The possible danger of installation close to curtains and other combustible materials.
9. The product must be installed at least 1.8 m above the floor.
10. The appliance is to be installed so that switches and other controls cannot be touched by a person in the bath or shower.
11. The product shall, under no circumstances, be covered with insulating material or similar material.
12. National regulations concerning the discharge of air have to be fulfilled.
13. Joists, beams and rafters shall not be cut or notched to install this product.
14. Install wall switch in a dry area away from baths and showers. Keep remote dry at all times and avoid contact with water.
15. The Infra-Red lamps are not designed to heat the entire room area, they provide instant heat to persons standing directly below them. Install your bathroom heater above the area where drying off usually occurs.
16. This product has not been designed to be left on for extended periods of time, as this could cause overheating and premature failure.
17. For the exhaust fan to work efficiently, replace air of a volume equivalent to what is being extracted must be able to enter the room. In general this air would be drawn under the door, or through a slightly open window. If the room is airtight, the fan will function poorly.

INSTALLATION

MODEL	Cut out size	Product height without facial	Product height without facial
SBH4	290x290mm	216	175mm
SBH2	345x190mm	210mm	170mm



1. Cutting a vent (when required)

For installation where external venting is required or is your choice, select a suitable location in either the roof or exterior wall to vent out the exhausted air / steam and cut out a 105mm hole.

2. Ducting

Put one of the 100mm-diameter ventilation duct into the vent hole and seal space around the hole using a suitable sealant and cowl where necessary.

Note: Since the length of each duct is 1.5m, make sure that from the centre of installation position there should be a distance within 1.5m to the outside vent.

3. Locating the heater

Your bathroom heater has been designed for use on ceilings between 2.4 and 2.7m in height.

4. Prepare the ceiling

Mark the ceiling with a pencil outline 4 Heat 290mm x 290mm (2 Heat 190mm x 345mm) and cut out a hole in the ceiling at the chosen area.

Make sure a distance between the edges and wall is no less than 250mm. There should be a minimum 220mm clearance above the unit.

Ensure that the intended hole will have suitable room to locate the unit and that it will not be in interfere with joists, or the ceiling structure.

5. Remove the fascia

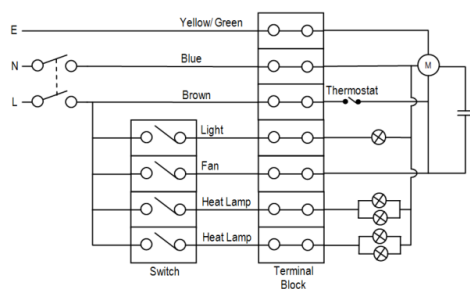
Remove all lamps from your bathroom heater. Unfasten the internal fascia-retaining springs inside the housing. Remove the fascia. Be careful not to damage the lamps when removing, storing or replacing.

6. Wiring

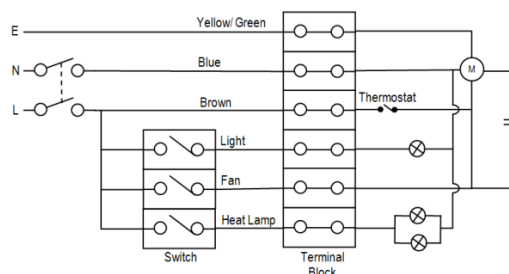
Ensure that the power is turned off before carrying out any work on electrical installations.

Wire the 4 Gang wall mounted switch with the active line via a suitable isolating switch or power outlet, as shown below, run the cable through the wall cavity to the ceiling for connection to the bathroom heater lamp. Connect the wiring to the terminal block in the bathroom heater lamp, as per the wiring diagram below, run the neutral line to the bathroom heater unit neutral connection via the isolating switch or power outlet as used for the active line. Connect and ensure that the earth connections on the unit are property grounded.

Once the wiring is connected, replace the terminal cover on the bathroom heater lamp unit and locate cabling so as to allow room for the bathroom heater unit to be positioned in the ceiling cavity.



4 Heat Lamps (SBH4)



2 Heat Lamps (SBH2)

6. Ducting

Fit the in-house end of the duct to the fan outlet and fix the end with duct clip. Keep the route as straight as possible.

7. Position the housing into the hole

Choose an optimal direction to put the housing into the hole in accordance with the position of fan outlet. Use the two spring clips to fix the housing.

Push the body of the unit into the hole in the ceiling duct side first. Pull the spring clips inward to avoid damage to the ceiling, then release so the spring clips can grip. Ensure that the unit is held securely by the clips.

If required, screws may be used to aid holding the unit in the ceiling. Some screw holes are provided in the housing for this purpose.

Note: Try to keep the redundant wire away from the housing.

8. Final Installation

1) Replace the fascia and retaining springs

2) Replace the lamps - Ensure the lamps are tightened sufficiently to make good electrical contact. Clean the lamps and fascia

3) Fix the switch panel to the wall - Depending upon the location and type of material the switch is to be fitted to, a switch bracket (not supplied) may or may not be required. Fit the switch to the wall and replace the fascia plate.

Note: The switch wiring should be routed inside the wall to give the switch an integrated built-in appearance. If it is necessary to run the wiring on the outside of the wall, use a suitable conduit and fixings to properly locate and hold the wiring used.

OPERATION

This product uses the Infra-red heating lamps as a source of heat. It also combines the functions of exhaust and light.

1. Turn on/off 'Heat' button/s.

This product is supplied with two groups of Infra-red lamps. You can turn one or both of them for best heating effect.

Note: Do not touch the Infra-red lamps with any part of your body when in use.

2. Exhaust Fan

Turn on/off "fan" button

This product can exhaust odours and steam in a quick and efficient way by turning on the 'Fan' button.

Note: No additional exhaust fan is necessary.

3. Lighting

Turn on/off "light" button

REGULAR MAINTENANCE

1. Cleaning

Shut off power before cleaning

Regularly wipe globes and fascia with care using a soft cloth soaked with neutral detergent. Ensure the globes have cooled to room temperature before handling.

Ensure lampholder are free from foreign objects and dust.

The centrifugal fan requires regular cleaning to ensure optimum performance. With the power OFF, regularly wipe the fan clear of all dust. Clean the exhaust ducting kit, ensuring there are no obstructions at the exit.

2. Lamp Replacement

Shut off power before replacement

Use an E27 275W maximum reflector infrared heat lamp.

Note: Do not use higher wattage globes. Use of globes that are higher than the above rated wattage, may cause serious damage or fire.

WARRANTY

The original purchaser of this Bathroom heater is provided with the following warranty subject to the following conditions. The brilliant lighting 3in1 bathroom heater lamp is warranted against defects in manufacturing and workmanship for a period of 3 years. Applications deemed by Brilliant to be of a commercial nature are not covered by this warranty.

Warranty Conditions:

- This warranty is only valid for appliances installed according to the manufacturer's instructions.
- Warranty will only be provided where proof of purchase is provided, e.g. original invoice.
- This appliance must be installed by a qualified electrical contractor, or person authorised under legislation to work on the fixed wiring of any electrical installation. Warranty will only be provided where proof of qualified electrical installation is provided. E.g. Electrical Safety Certificate.
- The appliance must not be altered or modified in any way.
- This appliance is not intended for use by children or the infirm.
- The warranty does not extend to the heat or light globes supplied with this unit, or the installation of the unit or any associated wiring or any damage caused by installation or wiring.
- Please keep and present the original invoice to your service agent for warranty services.
- This warranty does not cover damages or loss caused by:
 1. Heat or light globes.
 2. Any consequential losses arising from incorrect installation or operation & maintenance of this product.
 3. Any consequential losses arising from incorrect wiring of this product.
 4. Any modifications or changes made to the unit, other than those recommended by the manufacturer.
 5. Any damage caused through lack of regular maintenance such as cleaning.

WARRANTY CARD

Please complete your details and file for future reference. DO NOT RETURN THIS CARD AT TIME OF PURCHASE

DATE PURCHASED: _____

PLACE OF PURCHASE: _____

MODEL NAME: _____

MODEL NUMBER: _____

YOUR DETAILS

NAME: _____

ADDRESS: _____

NB: No warranty will be provided unless proof of purchase and proof of qualified electrical installation is provided with warranty card.

