

CAUTION!

**READ ALL SAFETY PRECAUTIONS AND INSTRUCTIONS CAREFULLY
BEFORE INSTALLATION AND OPERATION.**

Minor design changes or otherwise may result in slight variations between the product illustrated and that which is contained within this package

INSTALLATION AND OPERATION INSTRUCTION BOOK BLIN008326

NEVADA

MODEL: 22887/05

PTC BATHROOM HEATER WITH EXHAUST FAN AND LED LIGHT

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INTRODUCTION & SPECIFICATIONS

CONGRATULATIONS ON YOUR CHOICE



Thank you and we are delighted you have chosen a BRILLIANT bathroom heater for your home. Please read all instructions carefully before assembly and use.

SAFETY NOTICES

WARNING / CAUTION

A WARNING / CAUTION notice denotes a hazard. It calls attention to an installation procedure, operating procedure, maintenance procedure, or the like, that if not correctly performed or adhered to, could result in damage to this product, personal injury or death. Do not proceed beyond a WARNING / CAUTION notice until the indicated conditions are fully understood and met.

SAFETY SYMBOLS

	Alternating current
	Protective earth
	Warning/Caution

PRODUCT SPECIFICATIONS

MODEL	COLOUR	OPERATING VOLTAGE	HEATER POWER	MOTOR POWER	LIGHT POWER	DUCT OUTLET	AIR VOLUME	NET WEIGHT
22887/05	WHITE	220-240V~ 50Hz	2000W	45W + 50W	23W LED PANEL, 3 CCT SWITCHABLE (WARM WHITE / COOL WHITE / DAY LIGHT)	ø100mm	MAX. 350m ³ /h	4.0kg

SAFETY FEATURE

This appliance is protected from overheating. When power to heater is switched on and sensed temperature inside housing reaches 95°C, heating element stops running automatically. When temperature lower to 75 °C, heater will start running again. For additional protection, heater will be cut off permanently by a non-resettable fuse when temperature reaches 155°C.

SPARE PARTS

SPARE PARTS LIST

MODEL	LED PANEL WHITE	4 GANG WALL SWITCHES
22887/05	22887SP001	22887SP002

SAFETY PRECAUTIONS

Please observe the following general safety precautions carefully before and during all phases of handling, installation, removal, operation and maintenance of this product. Failure to comply with these precautions violates safety standards of design, manufacture and intended use of the product. Brilliant assumes no liability for customer's failure to comply with these requirements.



SAFETY WARNINGS

1. Read and follow all instructions, safety information and assembly diagrams in this manual.
2. **Before any work on the product is undertaken, all supply circuits and powers must be disconnected by switching off the mains supply circuit breaker, to ensure all pole isolation of the electrical supply.**
3. **This product must be installed by a licensed and qualified electrician in accordance to AS/NZS 3000 Wiring Rules and applicable local authority regulations.**
4. **Means for disconnection of the appliance from mains supply must be incorporated in the fixed wiring in accordance with the wiring rules.**
5. **It is the responsibility of qualified, licensed installer and user to apply common sense and care at all times during installation, maintenance and operation of the appliance.**
6. 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 safe use of the product by a responsible person.
7. Children should be supervised to ensure that they do not play with the product.
8. The product is to be installed in a location so that the switches and other controls CANNOT be touched by a person in the bath or shower.
9. Do not install the product directly above shower cubicle or bath enclosure or a location where water will splash onto it.
10. Do not install the product close to curtains and other combustible materials.
11. **The product must, under no circumstances, be covered with insulating material or similar material on the sides or rear of the unit to avoid overheating.**
12. This product must be installed so that the relevant national regulations and Australian Building Code requirements concerning ventilation and the discharge of air are fulfilled.
13. Do not cut or notch joists, beams and rafters to install the product.
14. Do not damage hidden electrical wirings or utilities when making the ceiling cut.
15. Do use a power cable with a minimum 10A rating.
16. The light source contained in this luminaire shall only be replaced by the manufacturer or his service agent or a similar qualified person.
17. Check and confirm after the product is completely installed that all connections are proper and secure to prevent the product from falling, causing property damages or injury.
18. Do not probe through the fascia opening.
19. Use only wall controllers approved by Brilliant. Do not use electronic or solid-state wall controllers.
20. Do not install or use the product outdoor where it could be exposed to water or moisture (indoor use only).
21. This manual is not intended to instruct or assist untrained or unqualified persons to install this product.
22. It is the responsibility of qualified, licensed installer and user to apply common sense and care at all times during installation and maintenance.
23. Always turn off the product and ensure the heater/lamp/motor have completely cooled down before servicing and cleaning.

UNPACKING YOUR HEATER

INCLUDED WITH YOUR HEATER

Open the original carton and verify the following items are available for the standard purchase of this product. If there are any missing or mechanically damaged items, contact the Brilliant Customer Care. Do not throw away the carton or other packaging material as it may be needed if warranty replacement or repair is ever necessary.

- 1 x bathroom heater with LED panel
- 1 x duct outlet
- 1 x 1.5m ø100mm flexible ductwork
- 1 x 4 gang switch wall controller
- 2 x clamps
- 1 x external wall air outlet including installation screws
- 1 x cut out template
- 1 x instruction book



- Use of an unapproved wall controller voids the warranty. Therefore, do not control the operation of this product from any wall controller that is not approved by Brilliant for use with this product.
- Do not use solid state controllers.

CHOOSING A PROPER LOCATION

HOW TO CHOOSE A PROPER LOCATION FOR HEATER

This product can be installed in places that require direct radiant heating and circulated air flow such as bathrooms, ensuites and laundries.

Consideration on safety

1. Do not install the product directly above shower cubicle or bath enclosure. The heater must not be located immediately below a socket-outlet.
2. Do not install the product in a location where there is a possibility of water will splash onto the fascia or the switches being touched by a person in the bath or shower.

Consideration on ventilation

3. It is very important that air is allowed to enter the room being ventilated. This can be done by increasing gap under the door, installing door grilles, or opening windows. **It is impossible to exhaust more air from a room than is allowed to enter it.**
4. The product should be positioned to ensure ventilation air traversing the room provides ventilation to all areas. Avoid positioning the product too close to windows or doors as such positioning cut short the airflow path and does not provide proper ventilation. Ensure air is ventilated to outside through ductwork. **Precaution must be taken to avoid the backflow of gases into the room from the open flue of gas or other fuel-burning appliances.**

Consideration on orientation

5. The product must be horizontally mounted on a ceiling and not on a wall or a raked ceiling.
6. It is recommended that the air outlet points towards an outer wall and the ductworks interconnecting the air outlet and the external wall air outlet are laid in a straight fashion. If it is desirable for ductworks to run across any timber structures such as rafter, stud or joist, ensure the closest structure is not within 300mm of the air outlet.

Consideration on clearances

7. **Ensure the air outlet of the product is not directed to or close to a rafter or stud allowing maximum airflow when fan is turned on.**
8. Ensure at least 2.1 meters between the product fascia and the floor.
9. Ensure at least 210 mm clearance above the ceiling for installation.
10. Ensure at least 150 mm between the sides of the heater and any building element adjacent to it.
11. Ensure at least 1.0 meter between the sides of the heater and the sides of any adjacent heater, as well as at least 1.0 meter away from combustible objects such as curtains.
12. Do not cut or notch joists, studs, beams and rafters to install the product.
13. Before installation, ensure that there is no hidden electrical wiring or utility behind the spot where the opening is going to be made. Check and plan for the wiring route carefully.
14. Ensure the ceiling is strong enough to support the weight of at least 20 kg.

Nevada	
Fascia size	570 mm x 220 mm
Cut out size	550 mm x 200 mm
Product height without fascia	160 mm
Product height including fascia	170 mm

CHOOSING A PROPER LOCATION

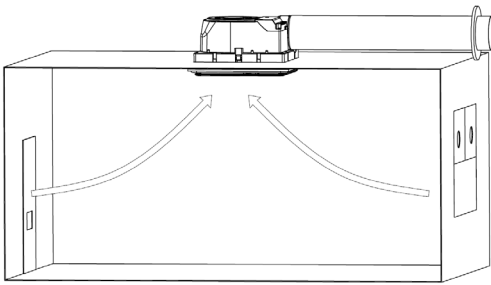
RECOMMENDATION ON DUCTING INSTALLATION

1. Plan the required length of duct carefully; cutting off excessive length of duct and ensuring ducting is as short as possible.
2. Ensure ducting is fully extended, properly supported, straight and not slacking.
3. Ensure ducting is not obstructed or squeezed.
4. Avoid bending the duct.
5. Do not use ducting with a diameter smaller than the diameter of the outlet, or the collar of the external wall air outlet to which the duct is connected.
6. Secure ducting connection properly using clamp, cable tie or tape.

INSTALLATION INSTRUCTIONS

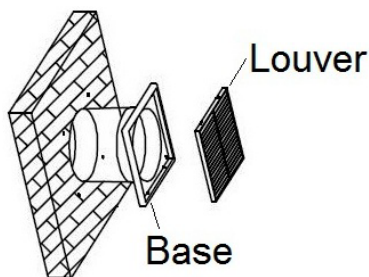


- Make sure electricity is turned off at the main power box before commencing work. Turn off the power by removing fuse or turning off circuit breaker before installing the product and replacing lamp.
- Make sure that ceiling joists are strong enough and of adequate size to support the weight of at least 35 kg.

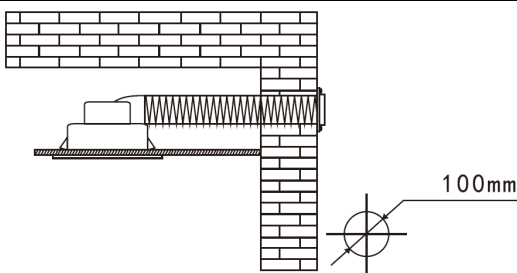


1. Take some time choosing an appropriate mounting location and direction with reference to instructions in previous page. Make sure all clearances required around the product are observed and there is no obstructing structure nearby the outlet. The area behind the intended location must be clear of obstacles such as cables, utility pipes and joists.

INSTALLING EXTERNAL WALL AIR OUTLET

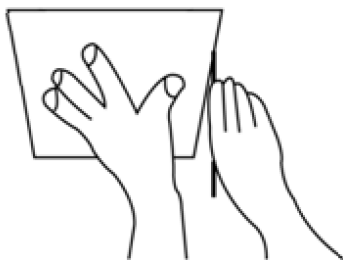


2. Mark out a circle of the air outlet diameter (about $\varnothing 100\text{mm}$) at desired location. Using an appropriate cutting device, cut along the line and remove excess material from the marked location. Push the duct through the hole and connect it to the collar of the external wall air outlet. Secure the ducting connection with the clamp provided.



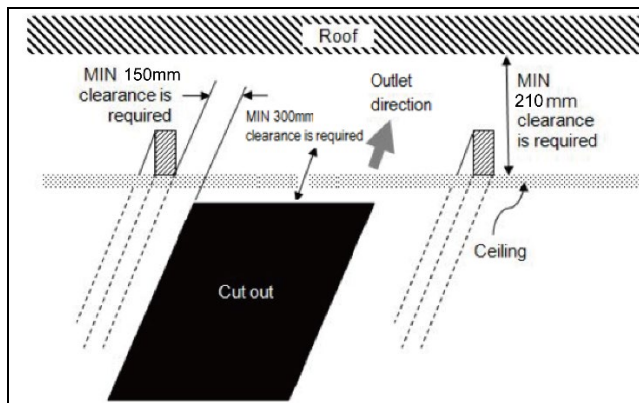
3. Fix the external wall outlet at the desired spot using four screws. Install ductwork following recommendation on ducting installation in previous page and direct the duct towards general direction of cut out and air outlet on the product.

INSTALLING BATHROOM HEATER



4. Use a pencil and trace around the template supplied in the package.

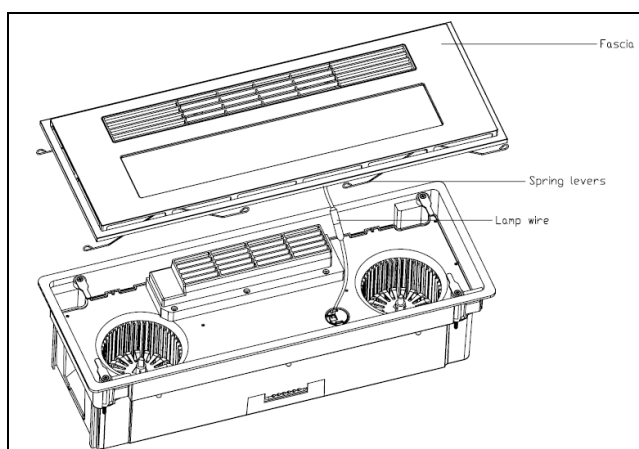
INSTALLATION INSTRUCTIONS



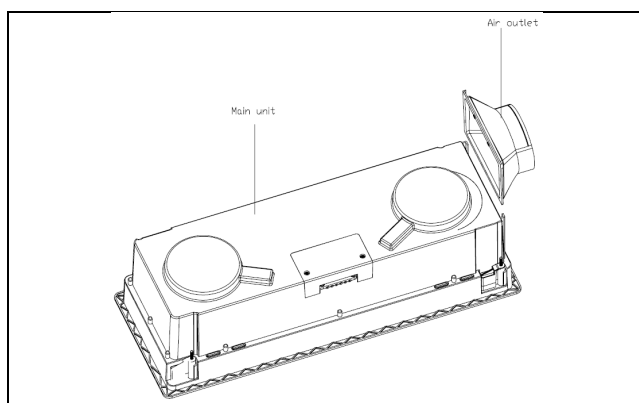
5. Using an appropriate cutting device, cut along the line and remove excess material from the ceiling. If necessary, provide additional support to the ceiling.

Tips:

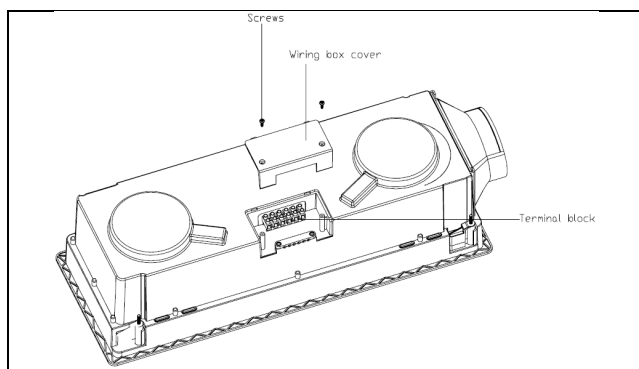
Do not cut the hole any larger than the specified cut out dimension.



6. Remove fascia from the main unit with care by pressing the two spring levers attached to rear of fascia and disconnect lamp wire.

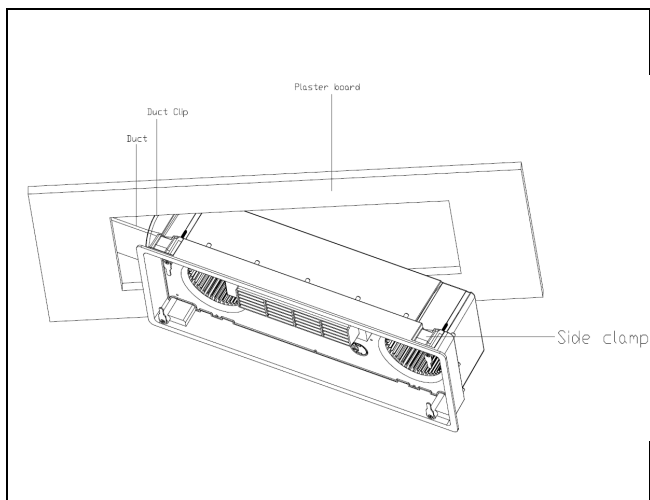


7. Install the duct outlet



8. Remove wiring box cover to access terminal block.

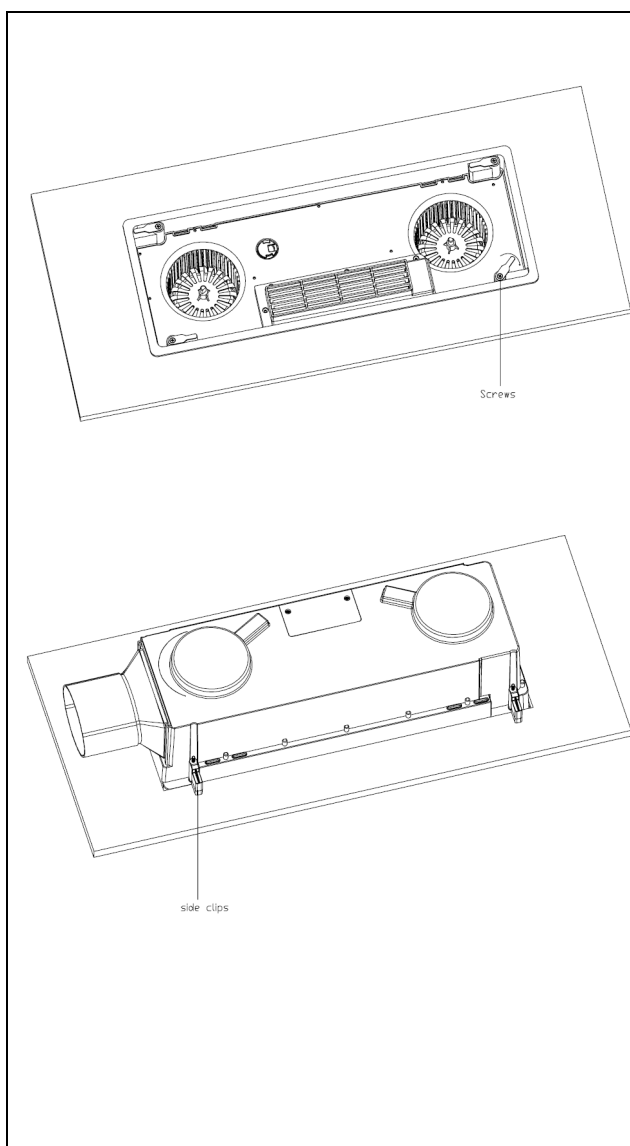
INSTALLATION INSTRUCTIONS



9. Draw wires out from cut out hole and make wiring connection in accordance with the wiring diagram provided. Connect ducting to outlet and secure its connection.

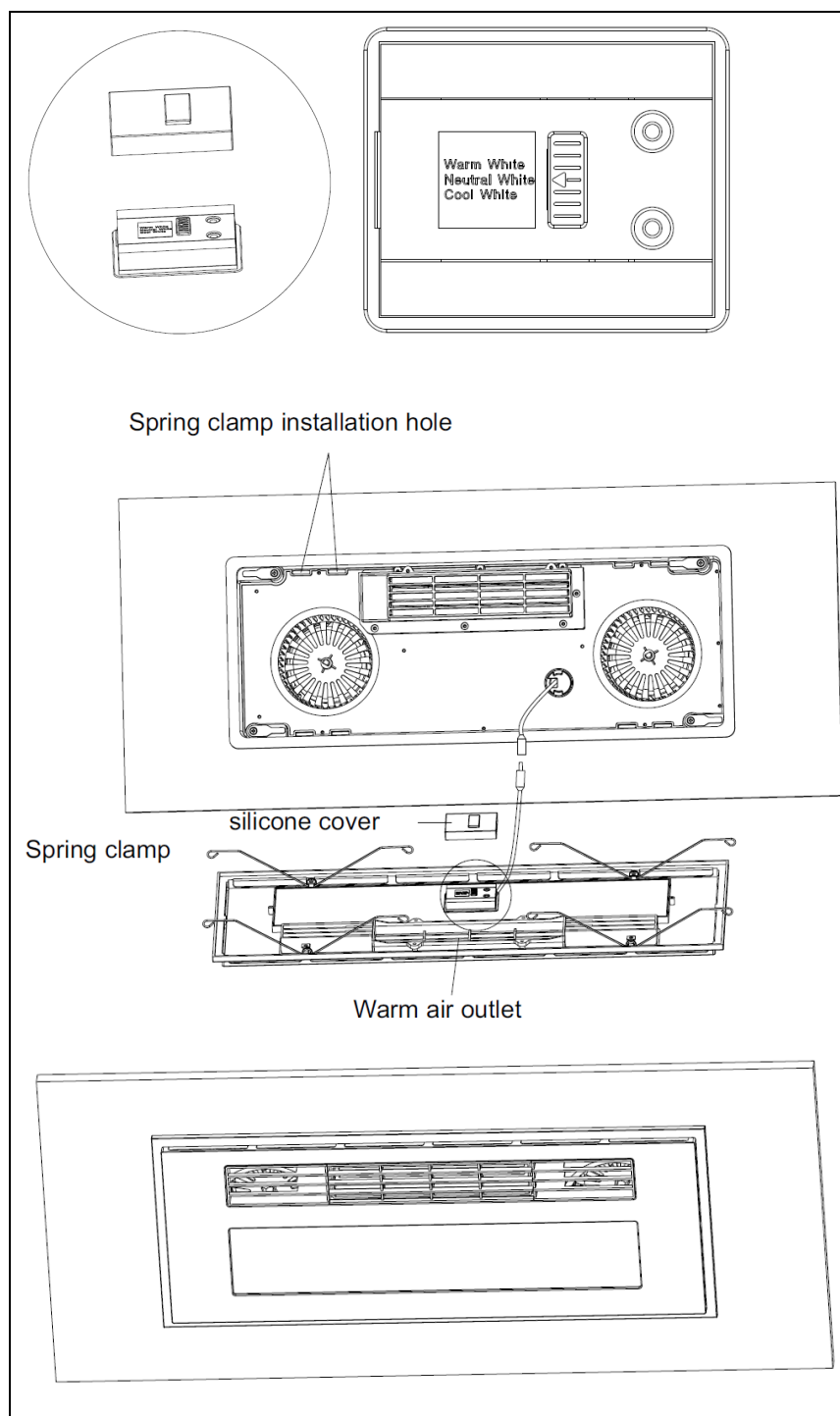
Insert heater into cut out hole at an angle ensuring duct connection is intact and no cable or insulating material rest over or against the heater.

Make sure side clamps are pulled inwards so that the rest of housing can pass through the hole without damaging plaster board.



10. Ensure the unit is held securely in place by pushing side clips outwards and tighten the four screws until main unit rests flush to the ceiling

INSTALLATION INSTRUCTIONS



11. Remove the silicone cover on the switch, select a light colour (warm white / neutral white / cool white) for LED panel by the sliding switch behind the panel, put the silicone cove back on the switch in same way.

Connect LED light power connector with driver output connector.

WARNING: warm air outlet must align with the special grill with heat-resistant materials.

Re-install fascia to main unit by squeezing four safety spring wires/clips together and slot them into the spring wire slot on main unit.

Align fascia with main unit before pushing it in. Make sure the LED panel connector and cable are not pressed by other components. Place whole fascia securely with main unit.

Before first use, turn on heater and fan for at least 5 minutes to eliminate any lingering odour.

WIRING DIAGRAM



WALL CONTROLLER INSTALLATION INSTRUCTION



- Do not mount wall controller near heat producing equipment.
- The wall controller provided is designed to be connected with the product supplied in this package only. Other uses may cause personal injury or fire hazard.
- Make sure electricity is turned off at the main power box before commencing work. Turn off the power by removing fuse or turning off circuit breaker before installing the wall controller.

HOW TO INSTALL WALL CONTROLLER

1. Disconnect the power and remove the existing wall plate and switch (if any).
2. Tighten screws on the terminals of switch and make sure wire connections are secure/correct.
3. Secure the wall controller to the wall with two screws provided.

HEATING OPERATION AND MAINTENANCE



1. Make sure electricity is turned off at the mains power box before commencing work. Turn-off the power by removing fuse or turning off circuit breaker before installing the appliance.
2. Allow the appliance to cool completely before commencing work.

CARE

1. If heating element or fan stops working, please stop using this product and call Brilliant Customer Service.

CLEANING & MAINTENANCE

1. After power is turned off and the appliance is cool, wipe the outer surface with a clean cloth dampened with petroleum-free detergent or liquid glass cleaner.
2. Do not use alcohol cleaner, or thinner or liquid that is corrosive to plastic for cleaning.
3. Dry the product completely before re-use.
4. Cleaning is recommended once a month.

HOW TO REPLACE LED LIGHT

The integrated fascia assembly can be replaced when operation lifetime of LED lamp is reached.

See page 2 for replacement parts.

WARRANTY

The original purchaser of this Bathroom Heater is provided with the following warranty subject to the following conditions.

Brilliant Lighting warrants this product against defects in manufacture and workmanship for a period of 3 years from date of purchase. For products used in non-domestic or commercial applications, Brilliant Lighting warrants this product for a period of 3 months from date of purchase. This warranty is only valid for products installed by a qualified electrical contractor and operated within the guidelines specified by Brilliant Lighting, and within the correct operating voltage ranges as stated on the product's rating label.

Warranty does not include damage or loss arising from incorrect installation, operation or maintenance of this product, damage caused through modification, incorrect installation, and service by unqualified or unauthorised personnel or lack of regular maintenance and cleaning. Proof of installation by qualified personnel may be required, eg. Electrical Safety Certificate. Proof of purchase must be supplied with all warranty claims.

Heat lamps and Light fittings are subject to Limited warranty status:

HEATING OPERATION AND MAINTENANCE

PRODUCT	TOTAL WARRANTY PERIOD
Bathroom Heater unit	3 YEARS
Wall Controller	3 YEARS
Light Fittings	2 YEARS

This warranty is provided in addition to any other rights and remedies of the customer under any law. In applications not intended for household, personal or domestic use, liability is limited to replacement or reimbursement of product only. Brilliant Lighting does not warranty the costs of removal or re-installation of this product or associated components.

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if goods fail to be of acceptable quality and the failure does not amount to a major failure.

Any claim under this warranty must be made within 3 years of the date of purchase of the product. To make a claim under the warranty; at your own expense take the product (with proof of purchase – receipt or similar) to the store where you purchased the product or contact Brilliant Lighting at the address below.

This warranty is given by:

Brilliant Lighting (Aust) Pty. Ltd.

ABN 37 006 203 694

Caribbean Park, 36 Lakeview Drive, Scoresby, VIC, 3179, Australia

Phone: 03 9765 2555

Email: warranty@brilliantlighting.com.au

Website: www.brilliantlighting.com.au

MADE IN CHINA



PLEASE RECYCLE ALL PACKAGING MATERIAL SUPPLIED WITH THIS PRODUCT