

FANTECH TRADE ///

MADE FOR TRADE

RESPONSE RADIANCE 3 IN 1 BATHROOM HEATER, EXHAUST FAN & LIGHT

INSTALLATION & MAINTENANCE INSTRUCTIONS

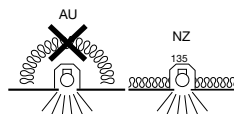


RESP3IN1WH - 3 IN 1 BATHROOM HEATER, EXHAUST FAN & LIGHT WITH WHITE GRILLE

⚠ WARNING

KEEP OUT OF REACH OF CHILDREN

Swallowing can lead to chemical burns, perforation of soft tissue, and death. Severe burns can occur within 2 hours of ingestion. Seek medical attention immediately.



INSTALLATION & MAINTENANCE INSTRUCTIONS



⚠ IMPORTANT SAFETY INSTRUCTIONS – PLEASE READ

- 1.1 It is important that these Installation and Maintenance Instructions are fully adhered to.

1.2 All electrical installations must be carried out by suitably qualified and competent personnel in accordance with all statutory requirements.

1.3 This product must be installed to the requirements of the latest edition of AS/NZS 3000. Means for the disconnection of the appliance from mains supply must be incorporated into the fixed wiring, in accordance with the wiring rules.

1.4 The unit is designed for use in an ambient temperature of up to 40°C. It is not suitable for corrosive or explosive atmospheres.

1.5 The installer should provide easy access to the unit to facilitate future maintenance and ensure that the unit is adequately supported.

1.6 This appliance is not intended for use by persons (including children) with reduced physical, sensory, 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. Children should be supervised to ensure that they do not play with the appliance.
- 1.7 Precautions must be taken to avoid back-flow of gases into the room from the open flue of gas or other fuel burning appliances.

1.8 If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid hazard.

1.9 This fan has an automatic thermal cut-out switch incorporated in the motor as standard and may therefore cut out and turn on automatically.

1.10 Do not install the unit switches or controls in a position that can be touched by a person in the bath or shower. The included remote control is not IP-rated and should not be subjected to any excess moisture or water.

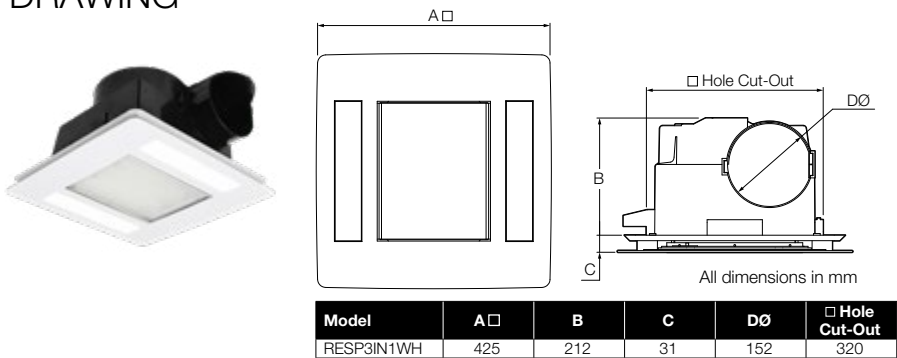
1.11 The product should not be covered by any insulating or similar materials to avoid overheating.

1.12 The unit should not be installed in close proximity to curtains or other combustible materials.

1.13 Do not look directly at the heat lamps while in use.

1.14 The unit should be installed in a horizontal ceiling with a maximum ceiling angle of 5°.

DIMENSIONAL DRAWING

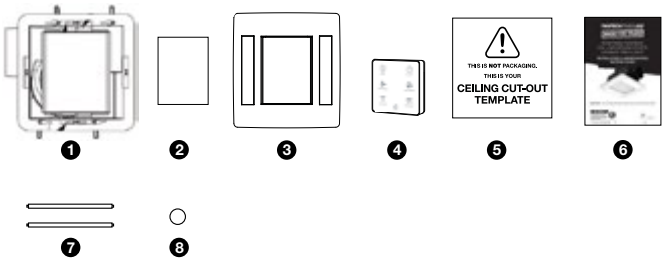


SPECIFICATIONS

Model	Voltage (V)	Frequency (Hz)	Fan Power (W)	Light Power (W)	Heater Power (W)	IP Rating
RESP3IN1WH	230-240	50	40	24	2 x 500	X4

INCLUDED IN THE BOX

- 1 x Main body
- 1 x Glass diffuser
- 1 x Grille assembly
- 1 x Remote control
- 1 x Cut-out template
- 1 x Installation & maintenance instructions
- 2 x Heat Lamps
- 1x CR2430 Battery



INSTALLATION

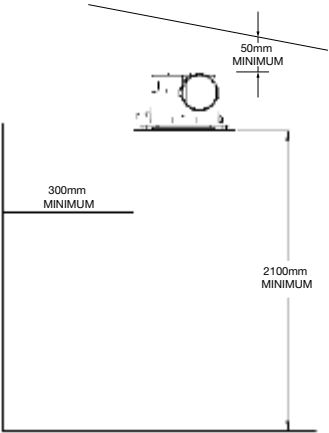
⚠ Warning

The unit must be isolated from the power supply during installation and maintenance. Upon receipt, the unit should be inspected for any damage.

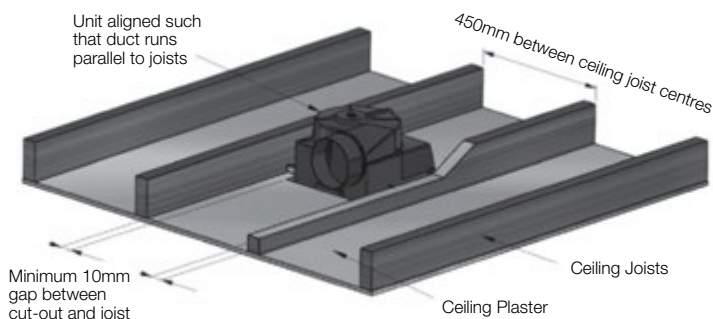
Risk of overheating or fire if the clearance distances are compromised.

New Zealand only: **Warning - Risk of Fire:** This appliance cannot be installed abutting thermal insulation or other building elements that are not suitable for exposure to constant temperatures of 135°C or above.

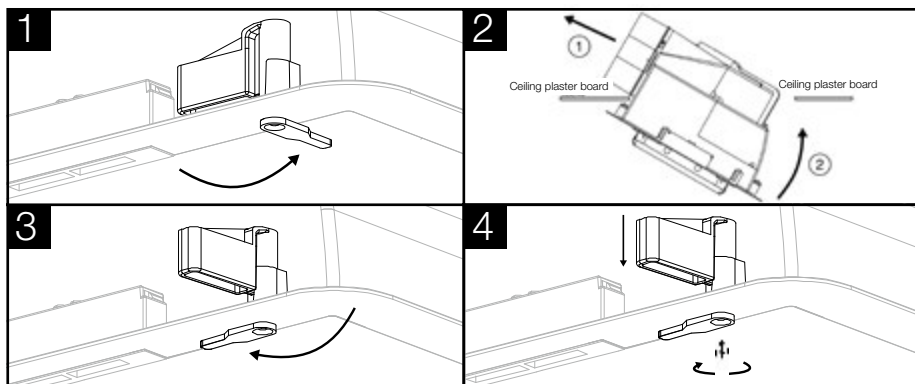
- 2.1 The unit is suitable for interior mounting in a horizontal ceiling with maximum angle of 5° only and the installer should ensure that the installation location is adequately supported.
- 2.2 Ensure that the power supply is as rated on the specifications as an incorrect power supply will lead to permanent damage. It is recommended to use a minimum 10A rated supply cable.
- 2.3 Ensure that the unit is installed in a position at least 300mm from the nearest wall or permanent object, 50mm from the nearest building element above, and at least 2100mm above the floor. It is not recommended to install this unit directly above a shower or near flammable items such as curtains or furniture.
- 2.4 The unit must not be covered by insulation or other materials in the ceiling space. Ensure that the plug socket is not mounted directly above the unit.



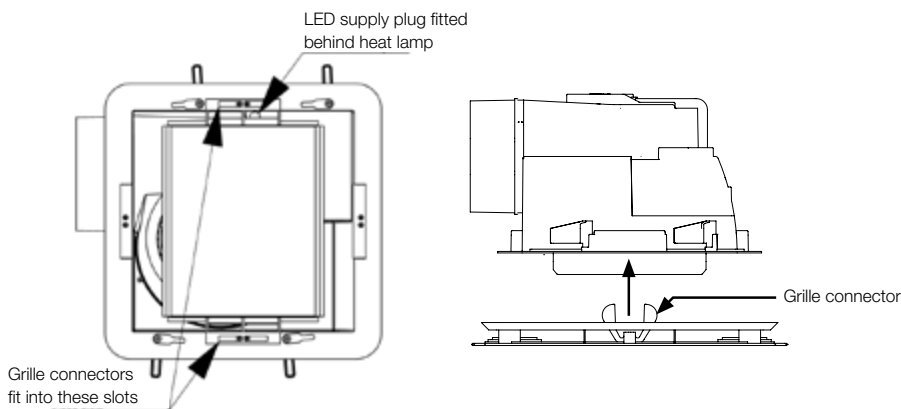
- 2.5 The unit requires at least 10mm of plaster either side of the cut-out to allow the swing clips to secure the unit to the ceiling.
- 2.6 This product is designed to allow the 90 degree rotation of the grille (including LED lights and heat lamps) so its design complements the shape of the room, while ensuring the ducting runs parallel to ceiling joists when connected to fan spigot. Before starting installation of the unit, ensure that the unit will be fitted into the ceiling so that the spigot will run parallel to the joists. **If rotation of the grille is required, refer to the heat lamp rotation guide included in these instructions on page 9.**



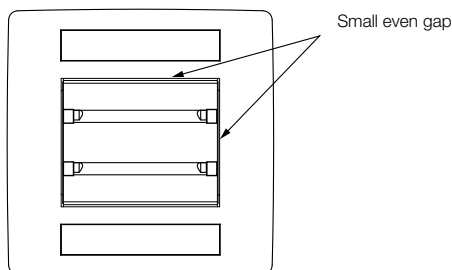
- 2.7 The remote control should be paired to the unit prior to installation, even if planning to use hard-wired switches. Remote control can still be used, even when hard-wired switches are connected. Insert the battery into the remote control by twisting the battery cover anti-clockwise, and pair the remote to the unit. Refer to the pairing guide and battery installation & replacement on pages 6 and 8.
- 2.8 Install the heat lamps and then the heater glass diffuser into the housing. Follow the guide in Section 9 (Page 10) for install instructions.
- 2.9 Cut out a 320mm x 320mm square hole (Template provided inside box) at the desired ceiling location. Ensure that the hole is positioned so that it is clear of the ceiling joists.
- 2.10 If flexible duct is required, remove spigot from main body and place duct over the spigot. Place the included cable tie around the duct that is sitting over the spigot and pull until tight.
- 2.11 If planning to use wall switches to control the unit, run the wiring as required, conforming to AS/NZS 3000 regulations. Refer to wiring method for hard wire on page 7.
- 2.12 If the spigot was removed to attach duct (2.10), then connect the spigot to the main unit before installing.
- 2.13 Before installing the 3 in 1 unit, turn the swing clips inward so that they sit within the recess of the main body. Insert plug into the power socket then place the duct through the cut-out hole in the ceiling and insert the unit into the hole. Rotate the swing clips by hand to hold the unit loosely in position. Tighten the four swing clips with a screwdriver which will clamp the unit securely to the plaster board.



- 2.14 The end of flexible duct must be connected to a roof mounted relief vent or a louvre grille that is mounted to an external wall or eave of the home. This allows the air to be exhausted externally. Fantech Trade have an extensive range of ducting, relief vents and louvre grilles to select from. Contact your nearest Fantech Trade reseller.
- 2.15 Turn the impeller by hand to ensure that it is running freely and not rubbing on any part of the housing.
- 2.16 Next, attach the grille assembly to the fan body by firstly connecting the LED light cable to the matching plug connector fitted on the body. Then, align the grille connectors to the slots in the heat lamp brackets and simply press the grille into place.



- 2.17 Ensure there is a small even gap all the way around between the heat lamp and grille. (refer below).

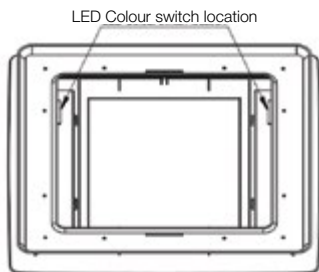


- 2.18 If using the remote control, do not secure its bracket to the wall until you have tested it in the desired location to confirm correct functionality and no external interference. The remote may not function correctly if electrical cables run directly behind it inside the wall, or if it is fitted directly beneath the unit, due to the location of the receiver.
- 2.19 Secure the remote control bracket to the wall. Plaster anchors are recommended if securing the bracket directly to plaster.
- 2.20 If the impeller has been checked, and the LED lights have been connected, then the unit can be turned on via the remote control, or wall switch.
- 2.21 The LED lights with this product have three different colour options and have been factory preset to neutral. Switch on the unit's LED lights and check that they are at the desired colour. If you wish to change the colour, refer to the LED light colour setting guide on page 6.

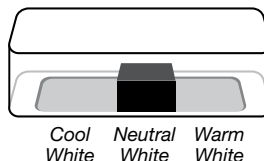
LED LIGHT

COLOUR SETTING

- 3.1 To change the LEDs' colour setting, use the switch on the back of each LED panel as shown in the diagram below.



- 3.2 Move the sliding switch to your desired colour position, as per the below diagram. Both panels have an independent switch, so ensure that both panels have been set to the same desired colour.



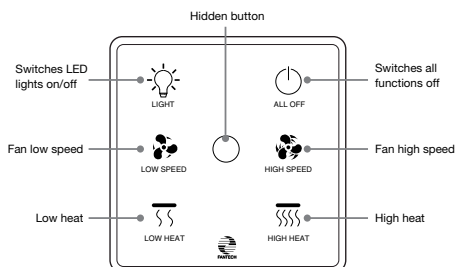
REMOTE

CONTROL

- 4.1 The remote control has been tested to have a direct range of approx. 8m, or approx. 5m with walls/doors in the way. Keep this in mind when selecting the location to install the remote.

- 4.2 The remote uses a CR2430 battery. If a replacement is required, they can be found at a wide range of retailers that sell watch/coin batteries.

- 4.3 Below is a diagram of the remote fascia, outlining the functions of each button.



- 4.4 To pair the remote control: Power up the fan unit. The unit can be plugged into any standard wall socket. Once powered up, the receiver inside the unit will immediately beep. Once you hear the beep, press the 'All Off' button three times in quick succession on the remote control you wish to connect to the unit. The receiver inside the unit will beep on the third press to confirm the pairing. If no pairing has been received, the receiver inside the unit will beep automatically after 5 seconds to signal the end of the pairing window. In order to try again, cut power to/unplug the unit, power it up again and repeat the above process.

NOTES:

Ensure no other RESP3IN1 remote control is being used nearby during this connection process. It is recommended to conduct this process before installing the unit into the ceiling. Once paired to the unit's receiver, the remote control will stay paired even if the unit's power is switched off, or if the remote control battery is removed. Only pairing a new remote control to a unit will replace any previous remote control pairing.

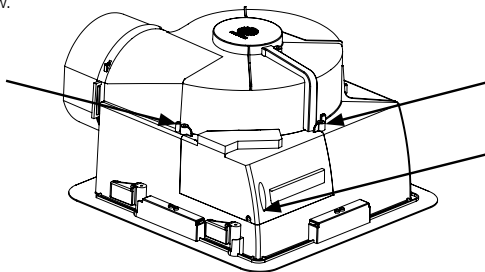
Fan low speed will automatically operate when low heat or high heat is switched ON. Fan low speed cannot be switched off during operation of heat lamps and will run for 20 seconds after heat lamps have been turned off.

Fan low speed is programmed to come on automatically when the LED light is turned on. When the LED light is switched off, the fan will continue to operate for a further 10 minutes. If during the 10 minutes the light is re-activated, this timer will reset.

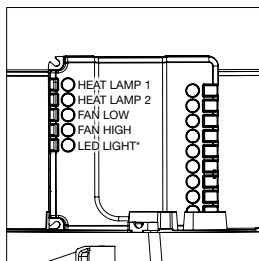
This 10 minute timer can be deactivated by pressing and holding the hidden button in the centre of the remote control (between the fan speed buttons) for 5 seconds until a beep is heard from the unit.

HARD WIRED CONTROL

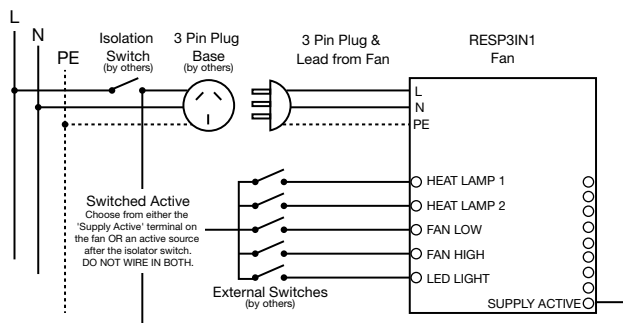
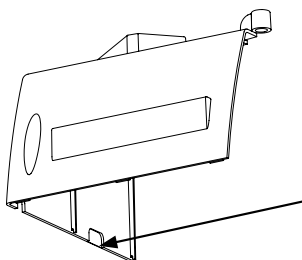
- 5.1 To connect the external switches to the unit, remove the junction box cover by undoing the 3 screws as shown below.



- 5.2 Connect the external switched active cables to the side of the remote receiver as shown. If the switched active source is to come from the fan, connect to the supply active terminal on the remote receiver as per below. Alternatively, the switched active source can come from an active source after the isolator switch. Switched active cables must not be connected to both the supply active and an active source.

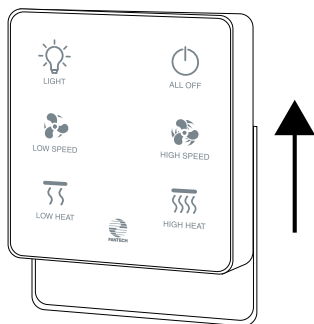


- 5.3 Remove knock-out section on j-box cover before returning it to the unit.

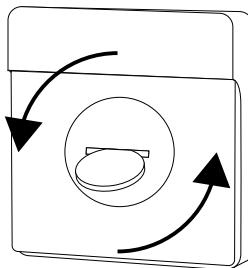


BATTERY INSTALLATION & REPLACEMENT

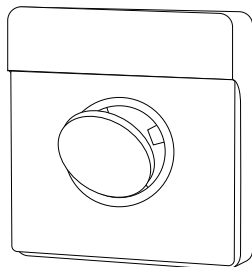
6.1 Remove controller from the wall bracket.



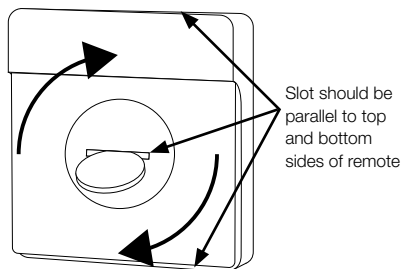
6.2 Insert a small coin or flat head screwdriver into the slot of the battery cover on the back of the controller and gently press into the slot while rotating anti-clockwise.



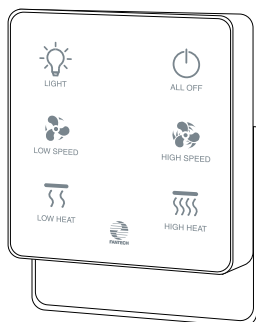
6.3 Remove old battery and replace with new. Ensure the battery has been installed in the correct orientation (text side facing outwards).



6.4 Secure the battery cover by gently pressing down and rotating it clockwise until it clicks. Confirm correct position by checking that the slot on the cover is parallel to the top and bottom sides of the remote.



6.5 Replace controller onto wall bracket.



Replacement battery code:
CR2430

HEAT LAMP AND FAN OPERATION

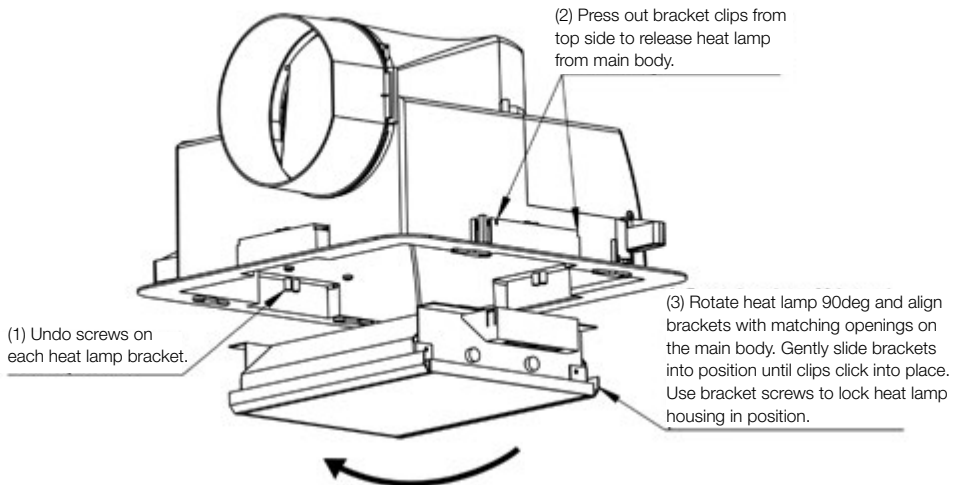
- 7.1 During operation of one or both of the heat lamps, the exhaust fan will automatically operate at low speed. It will also continue to operate for 20 seconds after the lamps are switched off. This is designed to ensure that the heat lamps do not overheat during use and are adequately cooled after use.
- 7.2 There is a thermal overload fitted to the heat lamps in case the fan does not operate. If the fan does not operate when heat lamps are in use, then the product is not operating correctly and a repair or replacement is recommended.
- 7.3 As a safety precaution, heat lamps will automatically turn off after 2 hours.

GRILLE/HEAT LAMP ROTATION

The unit must be isolated from the power supply during installation and maintenance.

NOTE: Rotation of the heat lamp can only be performed while the unit is not installed, as access to the topside of the housing is required. It is recommended to confirm the desired alignment of the heat lamp/grille before installation into the ceiling.

- 8.1 The unique design of the Response Radiance allows the installer to rotate the heat lamp housing inside the main body so that the grille can be positioned to suit the shape of the room.
- 8.2 If rotation of the heat lamp is required, firstly undo the 2 screws connected to each of the mounting brackets as shown below (1).
- 8.3 Press in the locking clips on each of the mounting brackets to release them from the main body. Ensure the heat lamp housing is supported when releasing the brackets from the main body (2).
- 8.4 Gently rotate the heat lamp 90deg, ensuring that the wiring is neatly arranged around the brackets. Push the mounting brackets into position until the locking clips click into position, and then secure the brackets with the screws (3).



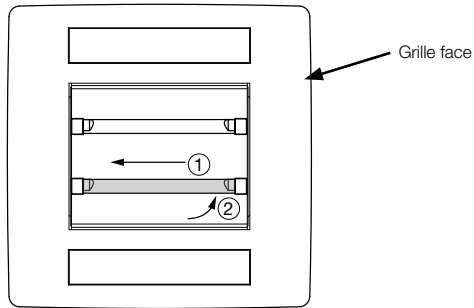
HEAT LAMP AND GLASS PANEL INSTALLATION/REPLACEMENT

⚠ Warning

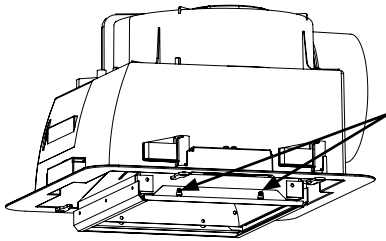
Ensure that the heat lamp is cool before attempting installation or replacement.

The unit must be isolated from the power supply during installation and maintenance.

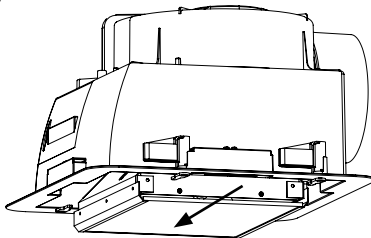
- 9.1 Install the heat lamps. Take care not to touch the glass of the heat lamp with bare fingers, as the oils from skin can cause hot spots on the glass and shorten the lifespan of the lamp. Place one end of the lamp into one end of the lamp holder. Gently push the lamp towards this end to allow the other end of the lamp to be positioned into the holder at the opposite end. Gently compress the opposite fixture if required to allow the lamp to drop into position.



- 9.2 Using a screwdriver, loosen the 2 screws holding the heat lamp endplate by rotating the screws about a half-turn, so that the endplate is free to move. Do not undo the screws all the way. Lift the endplate off the housing.



- 9.3 Carefully take the glass and slide it into position from the open end. The glass has a smooth side and a textured side. It can be positioned with either side facing the heat lamps. The glass should be resting on the two angled metal brackets as shown. Taking care not to disturb the glass, carefully return the removed endplate into position and tighten the endplate screws.



- 9.4 Once the glass has been secured into position, the grille can be fitted.
- 9.5 Removal is the reverse of the installation process. Ensure care is taken when loosening the screws on the heat lamp endplate when glass is installed.
- Replacement lamps can be purchased from Fantech Trade suppliers, using the code **FLH-GLOBE**.

PRODUCT MAINTENANCE

- ⚠ Warning**
- Do not cover the air inlet and outlet. Only a suitably qualified and competent person may carry out maintenance, and only after the electrical supply has been isolated. Ensure that the heat lamps are cool before carrying out any maintenance or installing/replacing heat lamps.**
- 10.1 Inspection of the unit at least once every 12 months is recommended to ensure that the motor, fan blades, heat lamps including reflector and supporting guards, are clean. Any build-up of dust and deposit should be removed using a non-abrasive cleaner and a soft cloth.
- 10.2 All fastenings should be checked for tightness. In addition, all rotating items should be checked.
- 10.3 Bearings are of the 'sealed for life' type and will not need a detailed inspection.

REPLACEMENT PART CODES

Replacement battery code	CR2430
Replacement lamps	FLH-GLOBE

WARRANTY



Scan the above QR code or visit
www.fantech.com.au/warranty
to view **WARRANTY**
information online



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