

HEATSTRIP[®]

R A D I A N T O U T D O O R H E A T E R S



OPERATION, INSTALLATION AND MAINTENANCE MANUAL



TT-MTM Wall Controller





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Rev B JUL12

TT-MTM wall controller

This controller is a custom designed and manufactured controller for HEATSTRIP®. It has been designed for ease of use and low running costs of your heater. It provides both temperature control (allowing the user to turn the heat output up or down depending on the ambient temperature and conditions) and a timer for automatic heater operation.

The count down timer function has four settings. It can be 1 hour, 2 hours or 4 hours or constantly on. This is ideal when continuous heat is not required. For example a BBQ, alfresco areas, restaurant dining, assembly line production etc. It is simple to use, just press the time button and it will switch on, press again and it will be 1 hour. After one hour the heater will switch off.

Depending on the ambient temperature, there may be a requirement to control the operation of the heater (standard on position is at full power and temperature). The controller has 3 settings, they are High, Medium and Low.

The controller allows a combination of the multiple timer (1/2/4 hour) and heat outputs (High/Medium/Low).

Controlling multiple units

It is possible to use one wall controller to control multiple heaters. The wall controller is rated at 15 Amps and 240 volts. For larger current draw, it is recommended that you talk to your electrician who can use a time delay relay to connect more units.

The controller needs a minimum of 250W on the load before it starts working. If connecting multiple units ensure one unit is connected directly to the controller and the others are connected using a contactor or relay.



MODEL	MAXIMUM VOLTAGE (Volts)	MAXIMUM CURRENT (Amps)	PACKAGED DIMENSIONS (mm)	WEIGHT (kg)
TT-MTM	240	15	140 x 90 x 60	0.5



Operation

Press "ON/OFF" button to turn power on and off.

Press "POWER" button to select power rate to "HIGH" – "MEDIUM" – "LOW". When power rate is at high, output turns on continuously. When power rate is at "MEDIUM" output alternates on and off. When power rate is at "LOW" output alternates on and off for longer.

Press "TIMER" button to set timer to 1, 2, 4 hours. Once timer is selected, timer will be started immediately.

When the timer has ended, power will turn off and all LED's will be off as well.

Thermal Cutout Protection

This controller is protected by a thermal cutout switch. This switch is activated when the temperature of the controller is too high. The controller will cut all power until it has cooled down. Once it cools down to below the limit, the unit will continue working as usual.

Warm Up Mode

The controller is programmed to operate continuously for the first 15 minutes of operation. This is to allow time for the heater to warm up. After this time it will operate as intended.

Safety

The TT-MTM controller is to be mounted indoors. It needs to be away from wet conditions.

Ensure the connections are properly connected.

The controller needs to be installed according to your local wiring guidelines.

Do not allow any cables, furnishings, flammable materials or other items to obstruct the vents of the controller. Never block the air vents of the controller.

Do not put anything in the vents of the controller.

If installed in wet areas, the controller must be located so that they cannot be touched by persons in the bath or shower.

This appliance is not intended for use by persons (including children) with reduced physical, sensory or intellectual 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 they do not play with the appliance.

Maintenance

The TT-MTM Controller is made from durable materials, however regular care and maintenance of your controller will help prolong the life of the product.

It is recommended that you dust the controller to keep the surface clean. The cleaning process at least every three months will reduce the amount of build up and keep it looking as best it can.

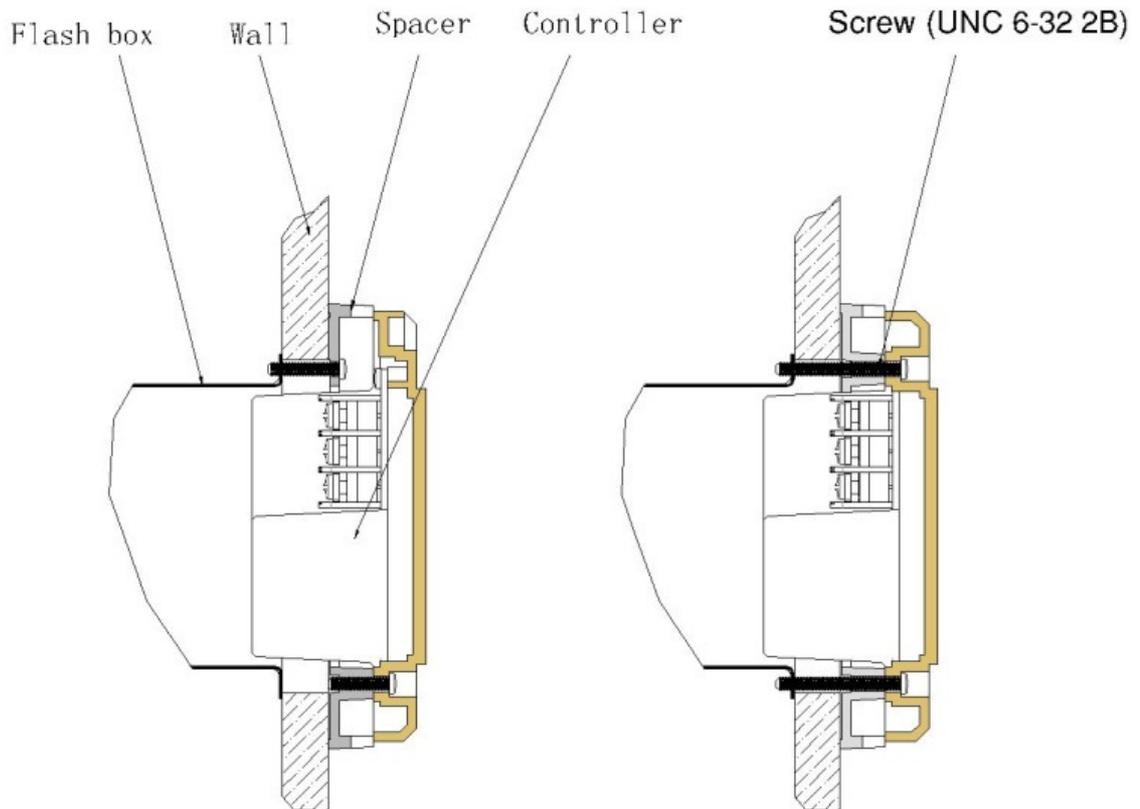
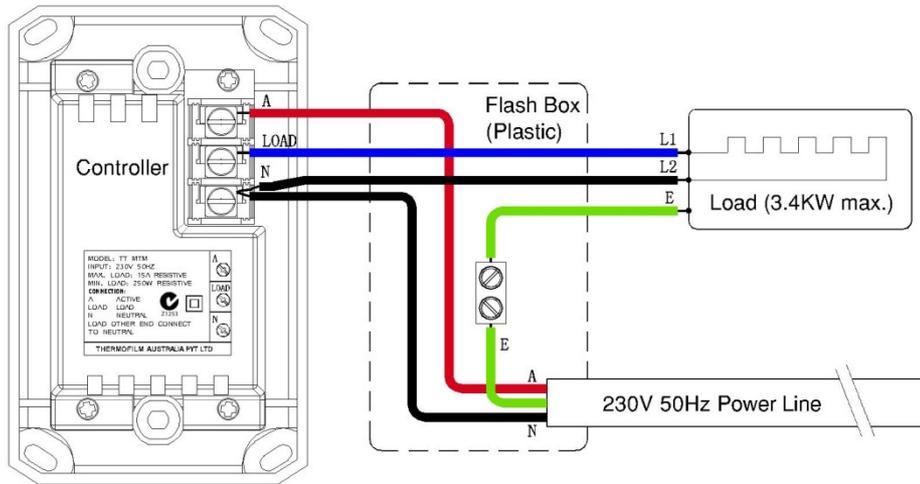
Do not use any abrasive materials or products to clean the heater, this includes solvents, citrus based cleaners or other harsh cleaning products. Do not use water or a damp cloth to clean the controller.

When handling the controller, ensure that your hands are clean or that you use clean gloves as grease or dirt can mark the surface of the controller.



TT-MTM CONTROLLER INSTALLATION GUIDE

Controller Wiring Example





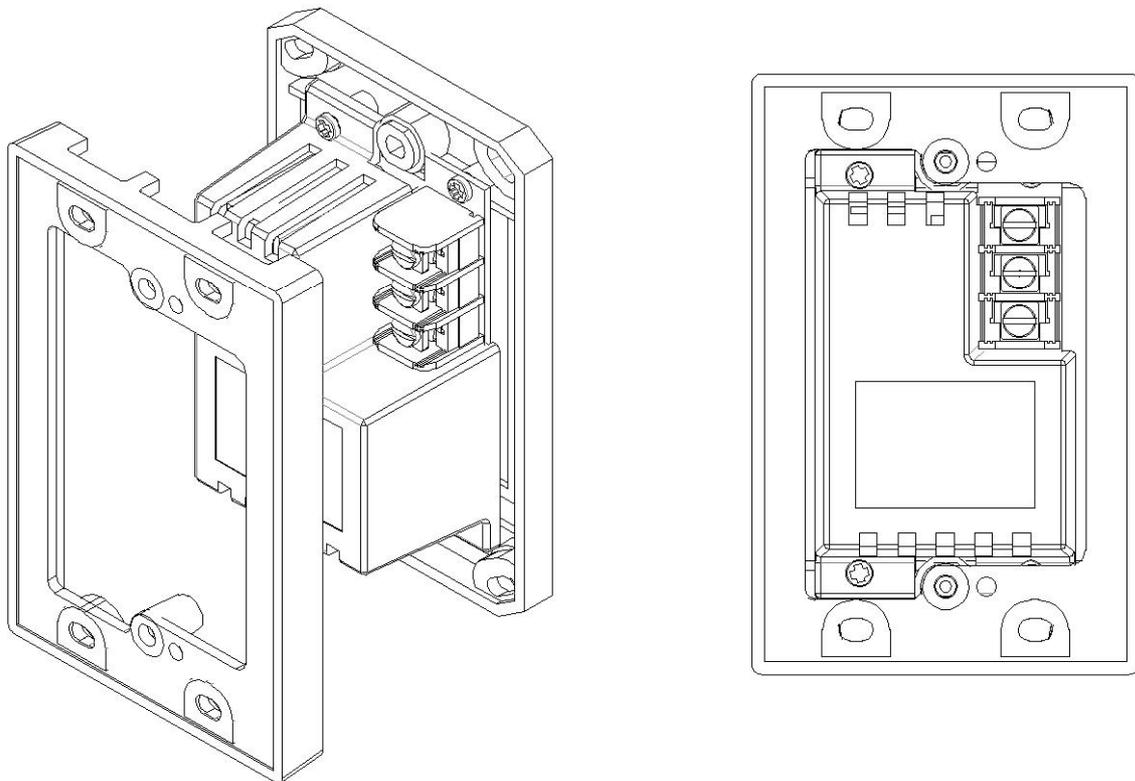
TT-MTM CONTROLLER INSTALLATION GUIDE

For better air circulation especially on high power load, the vents must be clear. Never block or cover spacer vents and keep as much space as possible around back cover or flash box.

Spacer can be mounted to the flash box behind the wall. You may use fitting holes to allow the flash box to centre itself to the back of controller (Example 1) or drill through spacer thread with a 4mm diameter to allow screw go through the spacer and fit tight to the flash box (Example 2). Flash box may not necessary if there is sufficient space at the rear of the controller.

Please take care when assembling the spacer as the direction will affect the air flow. Correct direction will best benefit the air circulation for heat dissipating from the controller.

Spacer Install Direction



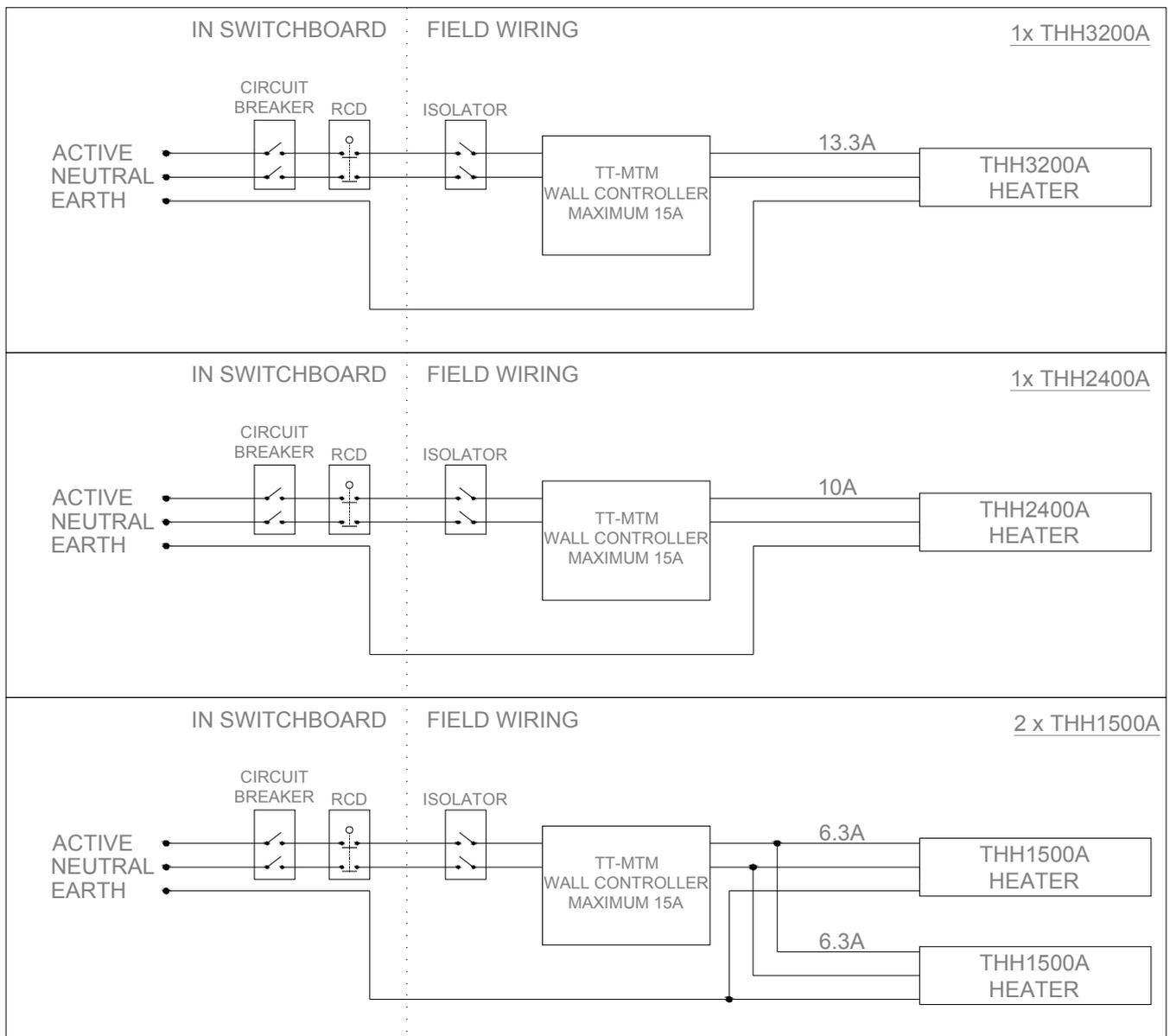


Heater wiring schematic diagrams

The HEATSTRIP® heater is required to be fitted with an "ON/OFF" isolation switch and can also be controlled with the use of a timer type control. It is recommended to use the TT-MTM Wall Controller for maximum performance and control options. Ensure the unit is turned OFF after use.

For direct wiring to the controller, the maximum is one heater unit unless it is two THH1500A.

For multiple units from one wall controller it is recommended to talk your electrician who will use a relay or contactor.

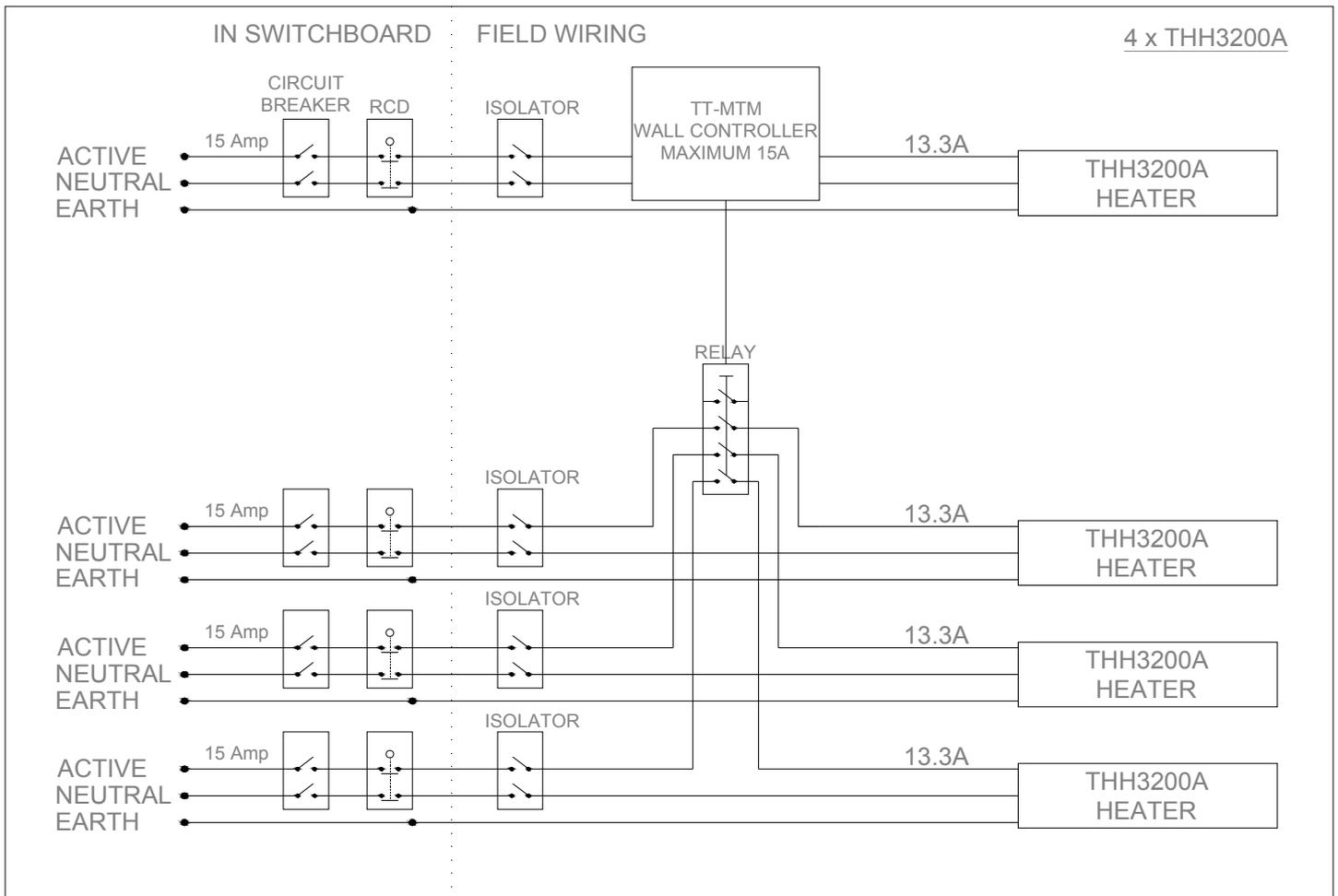




Heater wiring schematic diagrams with relays

When more heating units need to be connected from the same switch, a relay is needed. It is recommended that you talk to your electrician for more detail.

When using contactors or relays ensure there is a minimum load of 250W on the controller.





Warranty Terms & Conditions

The below Warranty Terms and Conditions apply for **New Zealand and Australia only**. For international warranty please refer to international warranty terms and conditions.

Thermofilm warrants to the original owner that TT-MTM Wall Controller products will be free from defects in materials and workmanship for a period of 12 months from the date of purchase in accordance with the following warranty terms and conditions.

Provision of this warranty is subject to:

- The TT-MTM Wall Controller product must be installed in accordance with the Installation Instructions and relevant electrical standards and codes.
- The TT-MTM Wall Controller product must be maintained and cleaned according to instructions detailed in the Installation Manual.
- There is no warranty expressed or implied with regard to capacity requirements. The selection of the unit or units depends entirely upon the system design and capacities as determined by the purchaser.
- The customer has not repaired, opened or altered the product in any unauthorised manner.
- This warranty excludes damage to the product or components arising from circumstances outside the control of Thermofilm, including, but not limited to, where the product is not used for intended purpose; where the product has been rectified in any way; incorrect installation; incorrect power supply; damaged caused during delivery; misapplication, misuse, abuse, vandalism, lack of maintenance or accident.
- Thermofilm's obligations under this warranty are limited to repair or replacement at Thermofilm's factory of any components of the product which Thermofilm identifies to its satisfaction to be defective.
- Transportation charges involved in return of the product to the Thermofilm factory (or any other location authorised in writing by Thermofilm) is the sole responsibility of the customer.
- All products are inspected and tested before despatch and are at the risk of the purchaser after the shipment from the Thermofilm factory, if not delivered by Thermofilm to destination.
- No products or components will be supplied in advance of an examination of the faulty product or components by Thermofilm or an authorized representative of Thermofilm.
- Thermofilm does not participate in any site related costs or labour expenses incidental to replacement of parts, repairing, removing, installing, servicing, transportation or handling of parts to complete products, and assumes no liability on parts repaired or replaced without written authorisation. Thermofilm shall not be liable for any default or delay in performance of its warranty obligations caused by any circumstances beyond its control, including, but not limited to, judicial or government restrictions, strikes, fires, floods, abnormal weather conditions, delayed supply of components.

Should products be determined as damaged on arrival, immediately notify the transport company of the condition and have them noted on the freight documents. If damage is discovered after unpacking, demand immediate inspection by the transportation company and insist that a record of the damage is made on the freight documentation.

The customer warrants using the product in accordance with:

- Any instructions provided to it by Thermofilm from time to time.
- All government and local regulations, including but not limited to all relevant electrical, environmental laws and regulations governing the installation, storage, use, handling and maintenance of the goods.
- All necessary and appropriate precautions and safety measures relating to the installation, storage, use, handling and maintenance of goods.

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 for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

All warranty requests for repairs or replacements must be accompanied by a complete "Warranty Claim Form" available from Thermofilm, together with proof of purchase (and where possible, photos of the installation) and the heater returned to the place of purchase.

In the event of a warranty claim, the goods need to be returned to the distributor/retailer for repair/replacement. Contact
Thermofilm Australia Pty Ltd
27 Rosalie Street, Springvale, Victoria 3171, Australia
Telephone: (03) 9562 3455,
Email: info@thermofilm.com.au