HEATSTRIP®

Max DC— Commercial (THX-DC)
Product Manual

HEATSTRIP® Max DC (THX-DC)

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HEATSTRIP®

Safety

HEATSTRIP® Max DC has an IP rating of X5. This means it is safe for water ingress from all directions. The HEATSTRIP® can be safely hosed down.
HEATSTRIP® has undergone extensive testing both in laboratory conditions; in Thermofilm's manufacturing facility in Melbourne and field trials in Australia and overseas. It has been this testing that gives the purchaser the confidence of a high quality product.

Independent laboratory testing has confirmed Thermofilm's full compliance with Australian and other International Standards. This includes CE, AS/ANZ, UL/CSE

The heater comes hardwired (6000W & 4000W) versions. In both cases the fixed wiring must be installed by a licensed electrician in accordance with the relevant wiring regulations.

HEATSTRIP® is Class 1 equipment and must be earthed.

In operation, this heater is VERY HOT— do not touch any part of the heater while it is turned on. Do not touch any part until 30 minutes after it is turned off.

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.

Do not allow any cables, furnishings, flammable materials or other items come in contact with any surface of the heater.

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

The heater needs to be installed as per the installation instructions paying special attention to the minimum clearances. The heater needs to be mounted on a rigid bracket or fixing.

The heater must not be mounted immediately below or in front of a socket outlet.

In case of a heater fault or damaged supply lead, the appliance should be returned to the point of purchase for return to Thermofilm for repair.

Maintenance

The HEATSTRIP® is made from durable materials, however regular care and maintenance of your heater will help prolong the life of the heater.

It is recommended that you hose down the heater and with a soft cloth gently wipe the surfaces of the heater with a mild detergent to remove the built up contaminants from the environment. Then rinse all detergent off the heater.
All chemicals in the atmosphere including cigarette smoke, pollution etc. will tarnish the surface of the heater. In this case, additional cleaning and maintenance may be required. The cleaning process at least every three months will reduce the amount of build up and keep it looking as best it can. If the heater is in a corrosive environment eg. salt spray, we recommend that you clean your heater with a light spray of fresh water every week. After cleaning, turn the heater on for 20 minutes to dry any water residue and prevent water staining.
Before cleaning or inspection activity, the heater must be switched off and cooled down completely.
Do not use any abrasive materials or products to clean the heater, this includes solvents, citrus based cleaners or other harsh cleaning products.

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

Do not use high pressure water to clean heaters, light water spray only.

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March 2025 Rev 1

Innovative, High Performance Electric Heating Technology

Features & Benefits

High Output radiant heat
The HEATSTRIP Max DC range of electric radiant heaters produces a high temperature radiant warmth that travels through the air directly to people and surfaces below – similar to the heat rays emitted by the Sun. Radiant heating is the only viable option for outdoor or tough indoor sites.

Dual Glass Element Design
Specially designed and engineered with a dual glass elements, which deliver high intensity instant heat. Ideal for coastal or hard to heat applications.

Maximum heat performance – multiple applications
The high temperature output of the HEATSTRIP Max DC is perfect for exposed outdoor sites, high ceilings and hard-to-heat indoor and outdoor applications.
The dual element design allows for a very compact unit, and maximum efficiency. Outdoor applications include al-fresco and dining/entertainment areas, patios, veranda's and balconies, to name a few. Indoor applications such as factories, warehouses, showrooms, workshops and workstation spot heating are ideal for the HEATSTRIP Max DC.

Suitable for permanent outdoor mounting, no protection needed.
For outdoor applications, the HEATSTRIP Max DC is suitable for both permanently exposed (eg. courtyards and patios) and undercover installations - does not need to be fully protected from the elements.

3 years full replacement warranty
It is fully supported by a 3 year replacement warranty under both residential and commercial conditions.

Corrosion protection
The HEATSTRIP Max-DC is suitable for use in most applications, including difficult corrosive environments such as coastal areas.

Multi-Purpose Mounting Options
The HEATSTRIP Max DC is supplied with flexible mounting options. The standard bracket will allow both ceiling and wall mounting, at various angles, as well as suspension by chains/wires. Extension rods are available as optional accessories.

2 models – hard-wired
2 models are available. The THX4000DC (4000W) & THX6000DC (6000W) requires hard-wiring supply.
The THX4000DC (4000W) require hard-wiring to 20amp power supply
The THX6000DC (6000W) requires hard-wiring to 32Amp power supply.

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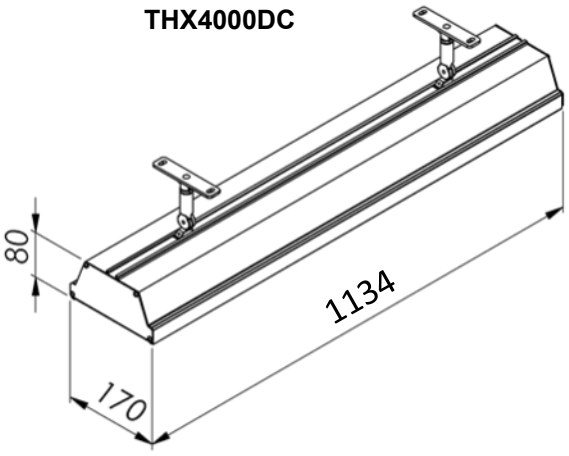
Specifications - Australia

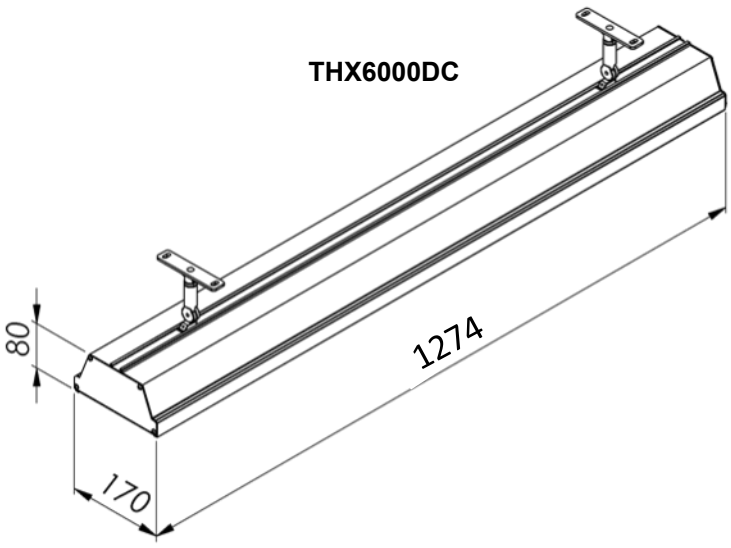
MODEL	POWER (WATTS)	CURRENT (AMPS)	DIMENSIONS (mm) (L x W x D)	WEIGHT (Kg)	LEAD LENGTH (mm)	PLUG
THX4000DC	4000	16.6	1134 x 170 x 80	5	1500	NO
THX6000DC	6000	25	1274 x 170 x 80	6	1500	NO

MODEL		
HEATER TYPE	High intensity electric radiant, infra-red overhead heater with dual glass element	
OUTPUT	Refer to model code chart above	
POWER	230-240 Volts Nominal at 50—60 Hertz, Single Phase 230-240 Volts Nominal at 50—60 Hertz, Three Phase	
CONNECTION	3 Core Cable 4 mm^2	
APPROVALS	AUSTRALIA / NZ	
MOUNTING HEIGHT	MINIMUM RECOMMENDED MAXIMUM	2.4 m 2.5 m to 2.8 m 3.0m Outdoors (For higher ceiling heights, units can be lowered using optional bracket kits)
MOUNTING OPTIONS	Suitable for ceiling, wall, beam mounting. Also available for extension mount using rigid fixing poles and chain mount bracket.	
PROTECTION RATING	IPX5 Protection from water ingress from all directions	
MATERIALS OF CONSTRUCTION	Anodised alloy casing and end caps with a powder coated grille (Black)	

THX4000DC



THX6000DC



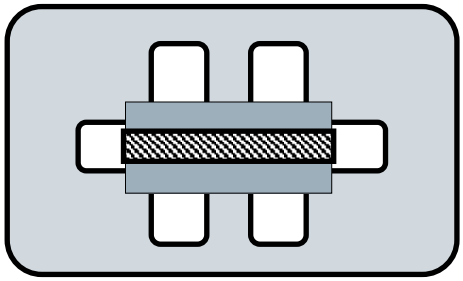
Spot heating principle

In most outdoor or difficult-to-heat indoor applications, there are 2 methods when looking at the size and quantity of heaters required.

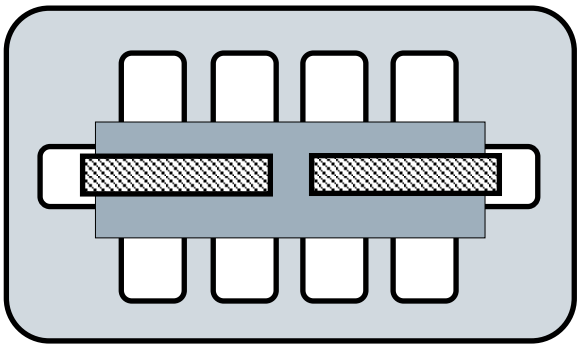
Option 1 is to comfort heat the entire area based on the total dimensions of the space, regardless of whether the entire area is being fully occupied or not.
Option 2 is to spot heat the high use areas, such as over outdoor tables, BBQ's, lounges, assembly lines or indoor workstations.

Often it is more practical and efficient to spot heat these areas. Spot heating will help to reduce the initial capital cost, as well as the on-going running costs. Spot heating will allow the area to be "zoned", meaning heating only the areas that are being used, such as tables in a restaurant or outdoor alfresco area.

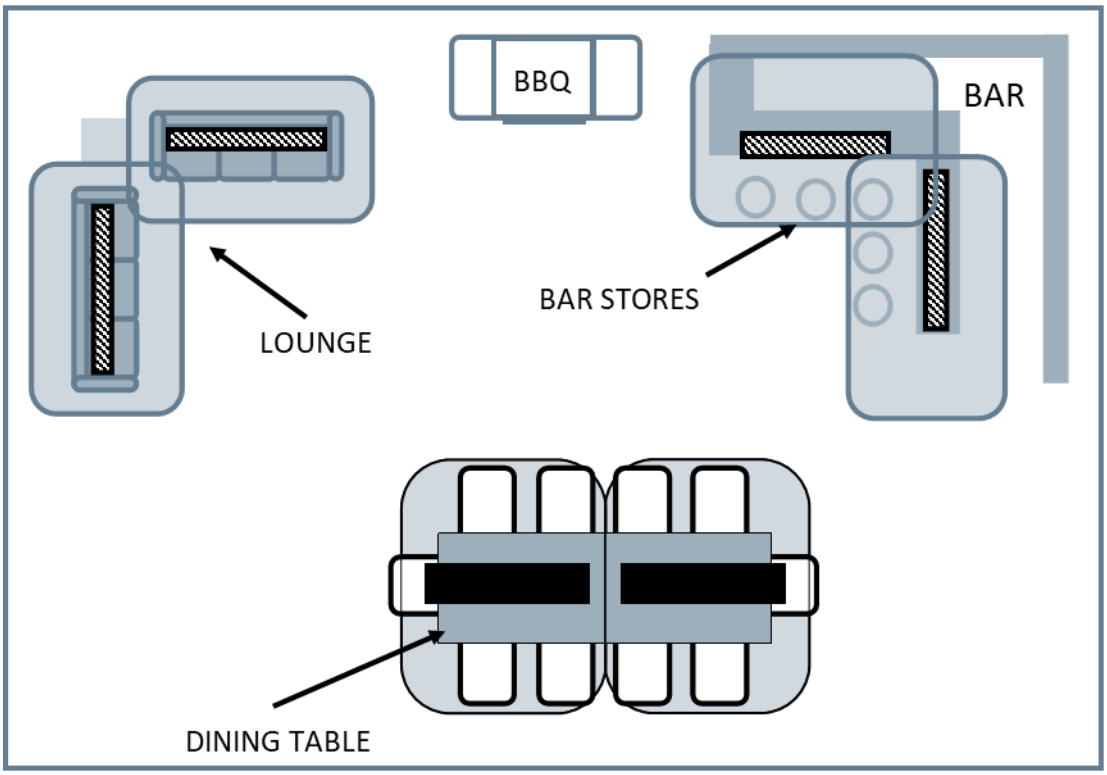
The top diagram shows how HEATSTRIP® Max DC is recommended to be used directly over a table, while the bottom diagram indicates how to spot heat a large area.



THX4000DC



THX6000DC



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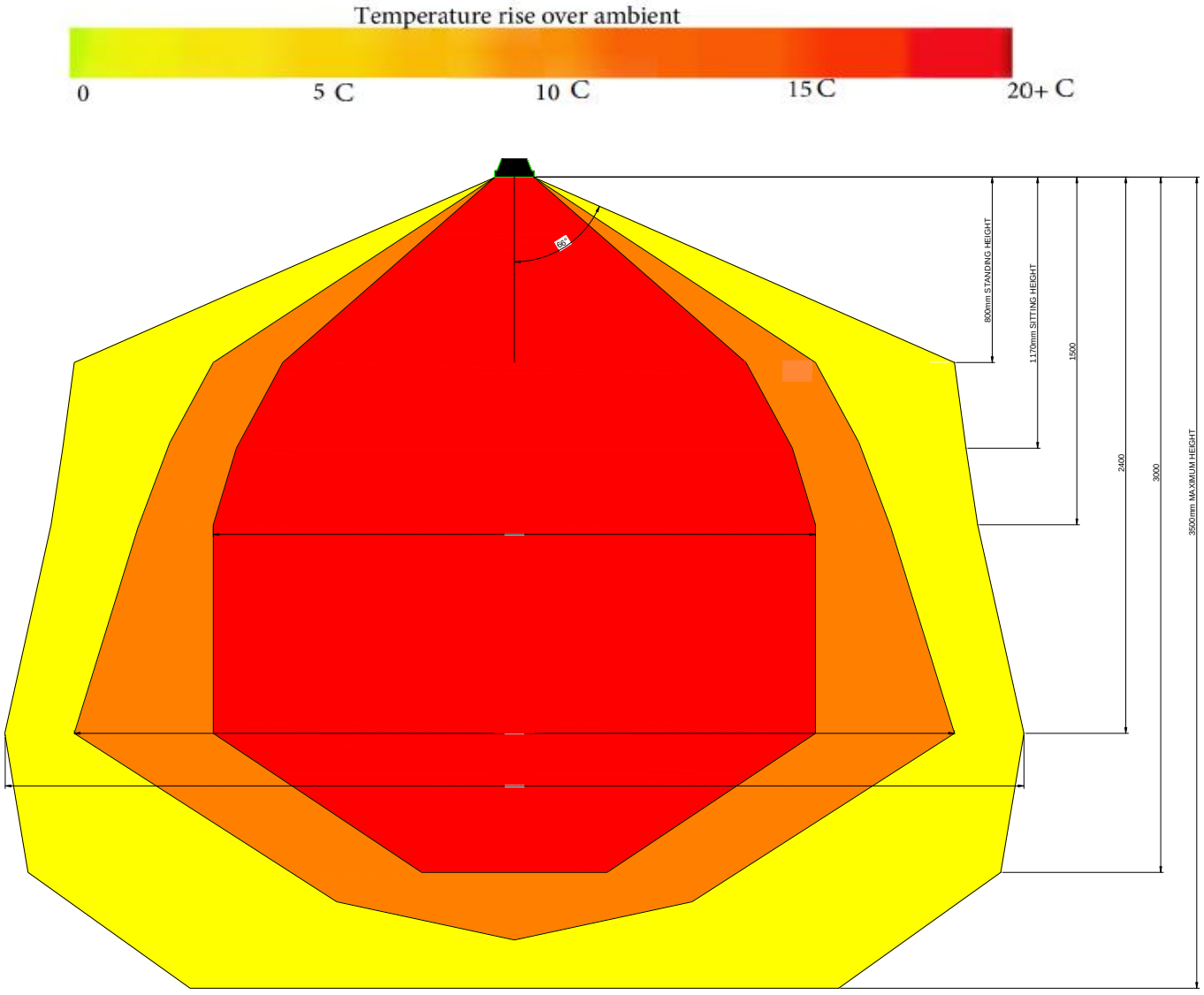
Radiant footprint

HEATSTRIP® Max DC electric heaters produce radiant heat, which heats objects rather than the air. Therefore, it is imperative that objects to be heated (ie. people), are within the direct radiant footprint of the heater.

The diagram below shows the radiant footprint of HEATSTRIP® Max DC, and is an approximate guide based on a fully enclosed, outdoor environment.
This diagram shows that the maximum heat output is found directly under the heater, and the temperature decreases as you move away from the heater.
It highlights the importance of maintaining recommended mounting heights, and positioning the heater directly above the area to be heated, if possible.

Also, the temperature (ie. surface temperature) is the same for both models, regardless of the wattage. However, as the size increases and the length of the unit increases, the radiant footprint will be larger.



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Selection guide

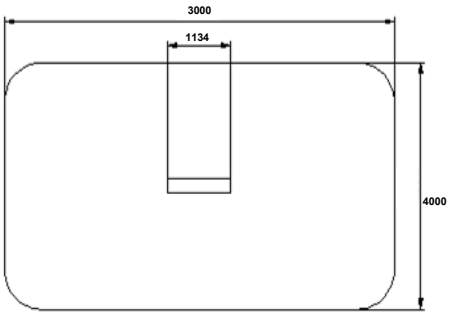
General recommendations for **HEATSTRIP® Max DC:**

- Ideal mounting height: 2.5m to 2.8m. Maximum is 3.0m Outdoors.
- Ideal mounting location: ceiling mounted, directly above area to be heated (Eg. above a table)

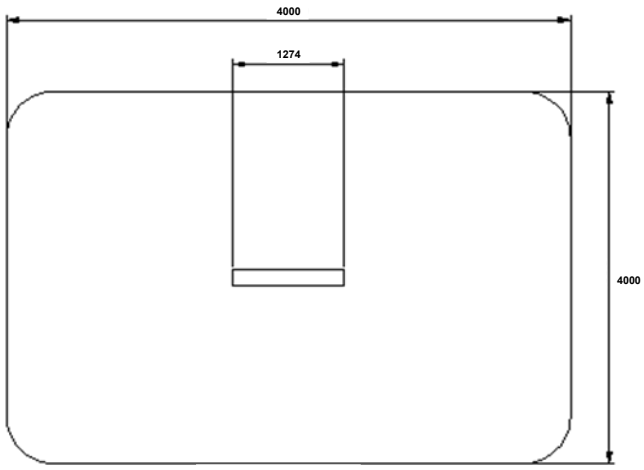
The below table outlines the coverage of each HEATSTRIP® Max DC model (in m^2), based on 3 different scenarios. For example, in an outdoor area that is protected from prevailing winds by walls, café blinds etc, (eg outdoor enclosed), Model THX4000DC will cover $12m^2$ and Model THX6000DC will cover $16m^2$.
This data is based on direct overhead ceiling mounting. If the heaters are wall mounted, the radiant footprint will be reduced.

MODEL	OUTDOOR EXPOSED (m^2)
THX4000DC	12
THX6000DC	16

Above data is based on direct overhead ceiling mounting. If the heaters are wall mounted, the radiant footprint may be reduced.
The below diagrams show the approximate heating area for each model, based on both an indoor protected, outdoor enclosed and outdoor exposed location.



THX4000DC



THX6000DC

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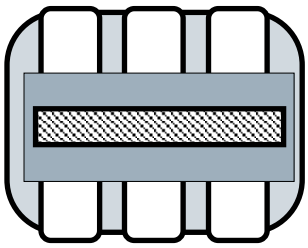
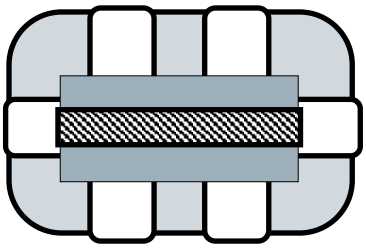
Table layout

For the majority of outdoor applications, the most effective method is to spot heat a table or similar area. The below diagrams provides an easy selection guide for the approximate model and quantity of heaters required to heat common table settings.

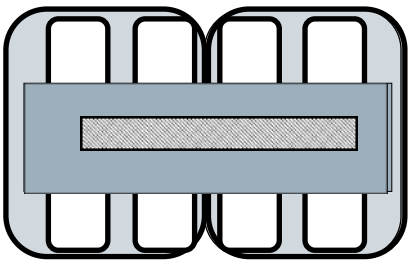
Selections are based on HEATSTRIP® Max DC being mounted at 2.7m from the floor and an undercover outdoor area.



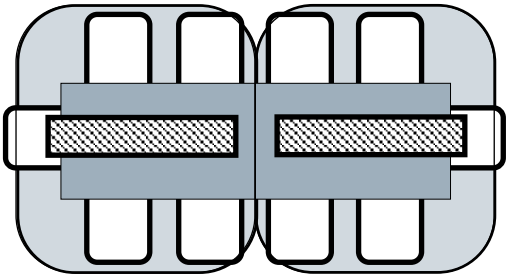
THX4000DC



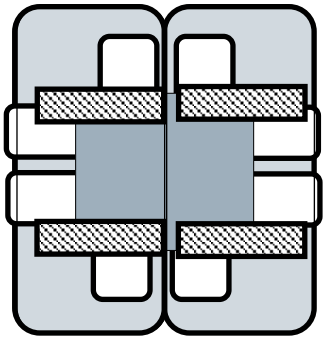
THX6000DC



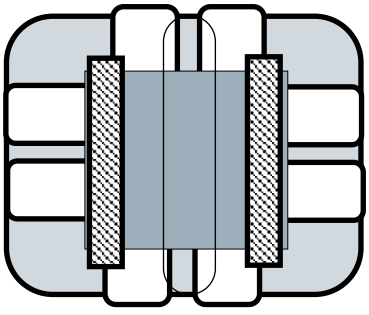
THX6000DC



THX4000DC



THX4000DC



THX6000DC

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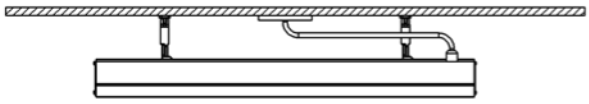
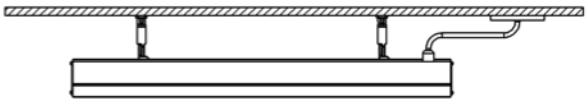
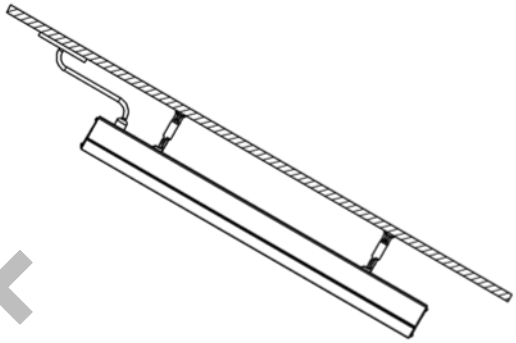
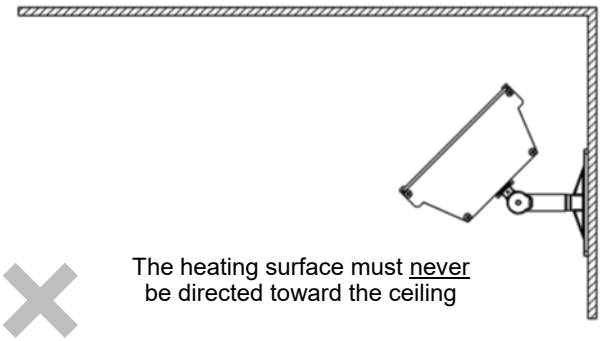
Installation Requirements

The ideal mounting position for the HEATSTRIP® Max DC is on the ceiling, directly above the area to be heated. If this is not possible, HEATSTRIP® Max DC can be mounted on a wall and angled downwards. In this situation, ensure the mounting height is in the range of 2.5m to 2.8m and the table is within 1- 2m of the wall.

For mounting heights more than 3.0m outdoors, we recommend the use of the optional accessories to reduce the height of the heater to 2.5m—2.8 m. This will increase the effectiveness of your HEATSTRIP®. Refer to the Mounting Accessory section for more information.
Electrical connections/GPO's should not be located at the back of the heater. They should be located outside the physical footprint of the units to minimize heat build-up behind the units.

The HEATSTRIP® Max DC is not suitable for mounting on an incline, along the length.

Incorrect Installation	Correct Installation
	
	
 The heating surface must never be directed toward the ceiling	

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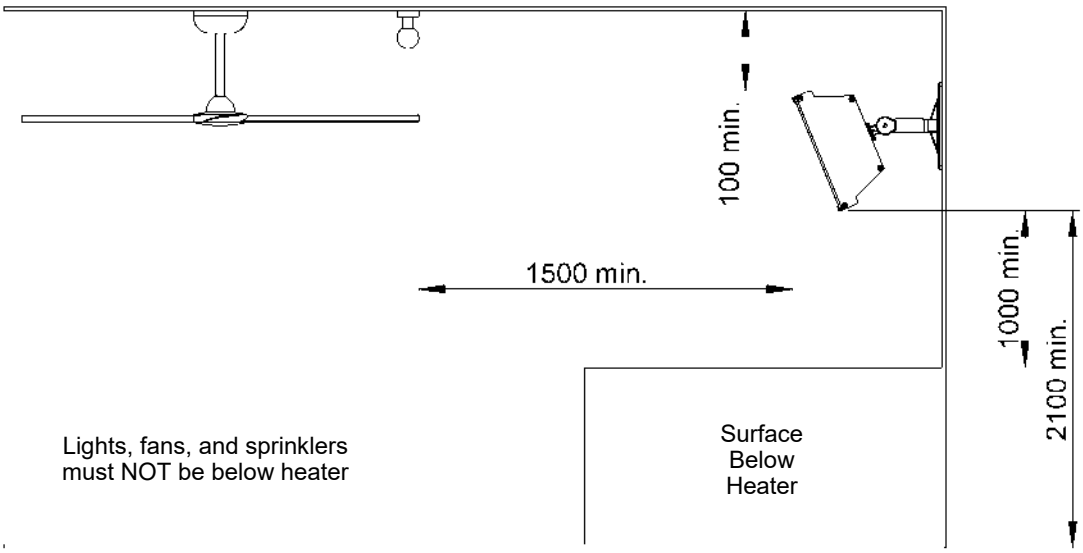
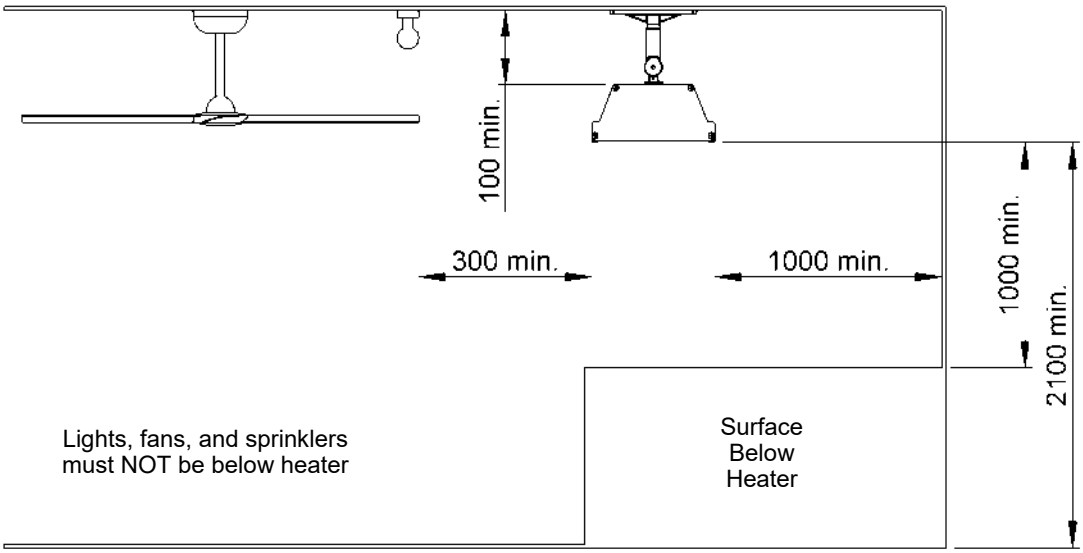
Installation location — the below diagrams confirm the minimum recommended clearances.

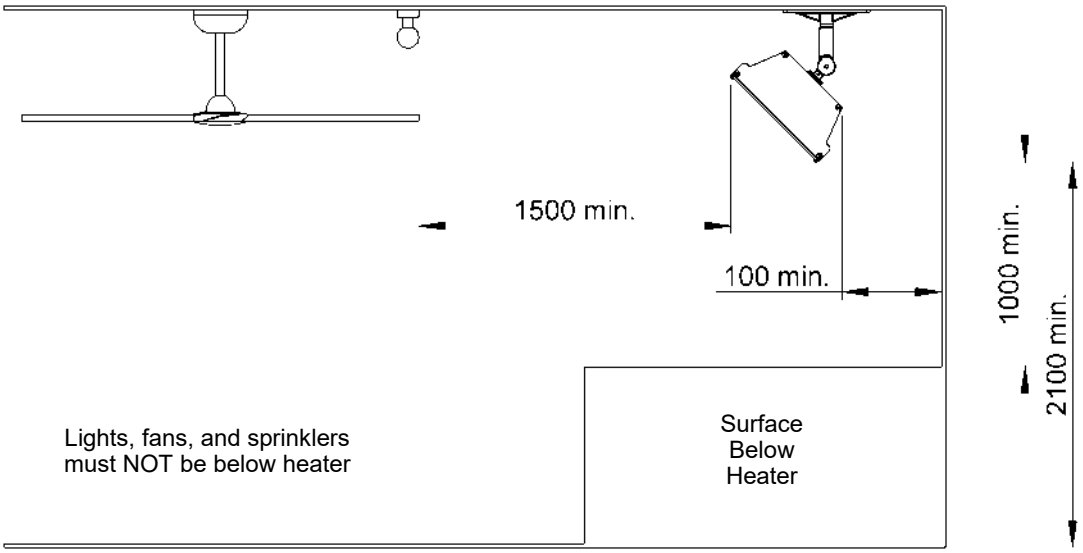
Angled Wall Installation



Ceiling Installation



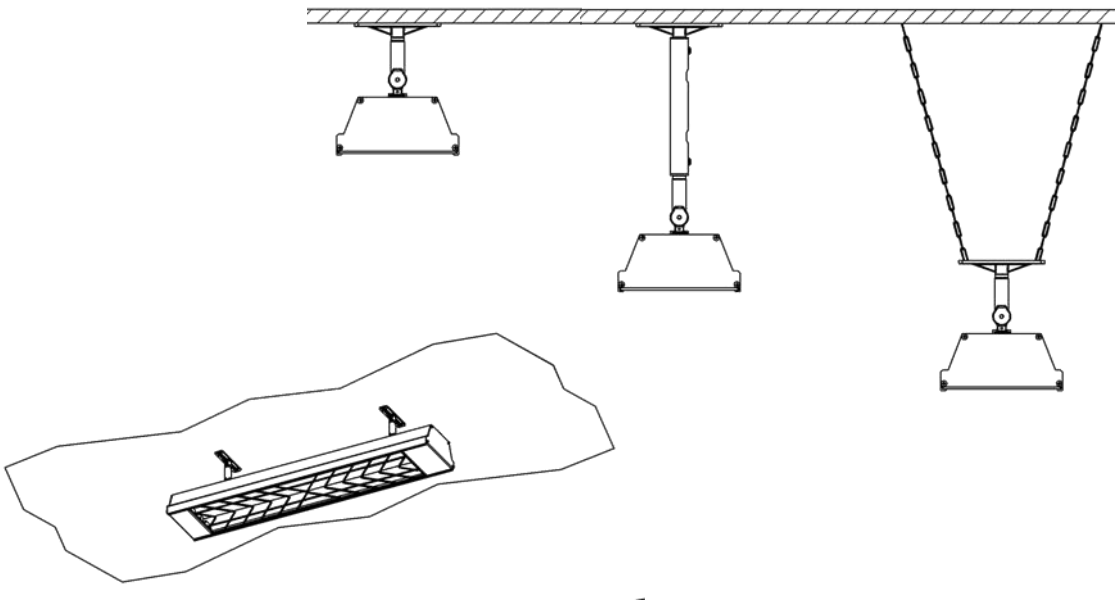
Angled Ceiling Installation



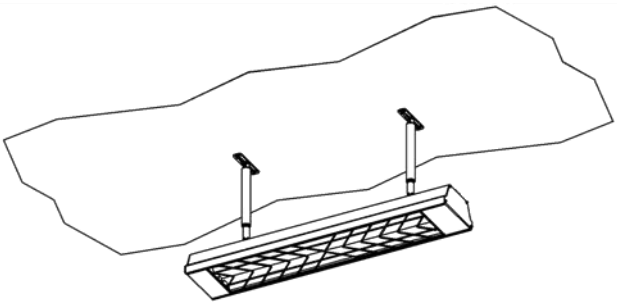
Mounting options

The installation of HEATSTRIP® Max DC is simple and easy with the standard mounting brackets supplied. For other more challenging locations there are a range of mounting options available - refer to below diagrams.

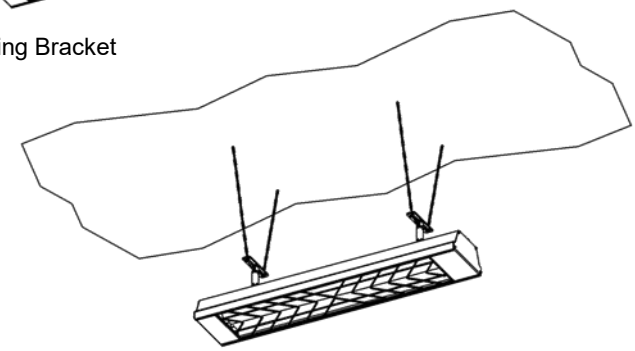
The HEATSTRIP® Max DC can be mounted directly to the ceiling, angled downwards on a wall, suspended on chains or poles, or attached to beams or poles. Refer to the following pages for more detailed information on each mounting option.



Standard Ceiling Bracket



Extension Mounting Bracket



Chain / Wire Mounting

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Standard mounting brackets

The HEATSTRIP® Max DC comes with a pair of standard mounting brackets. These adjustable brackets allow direct ceiling or wall mount, and come with pre-set angle options of parallel, 22.5° and 45°.

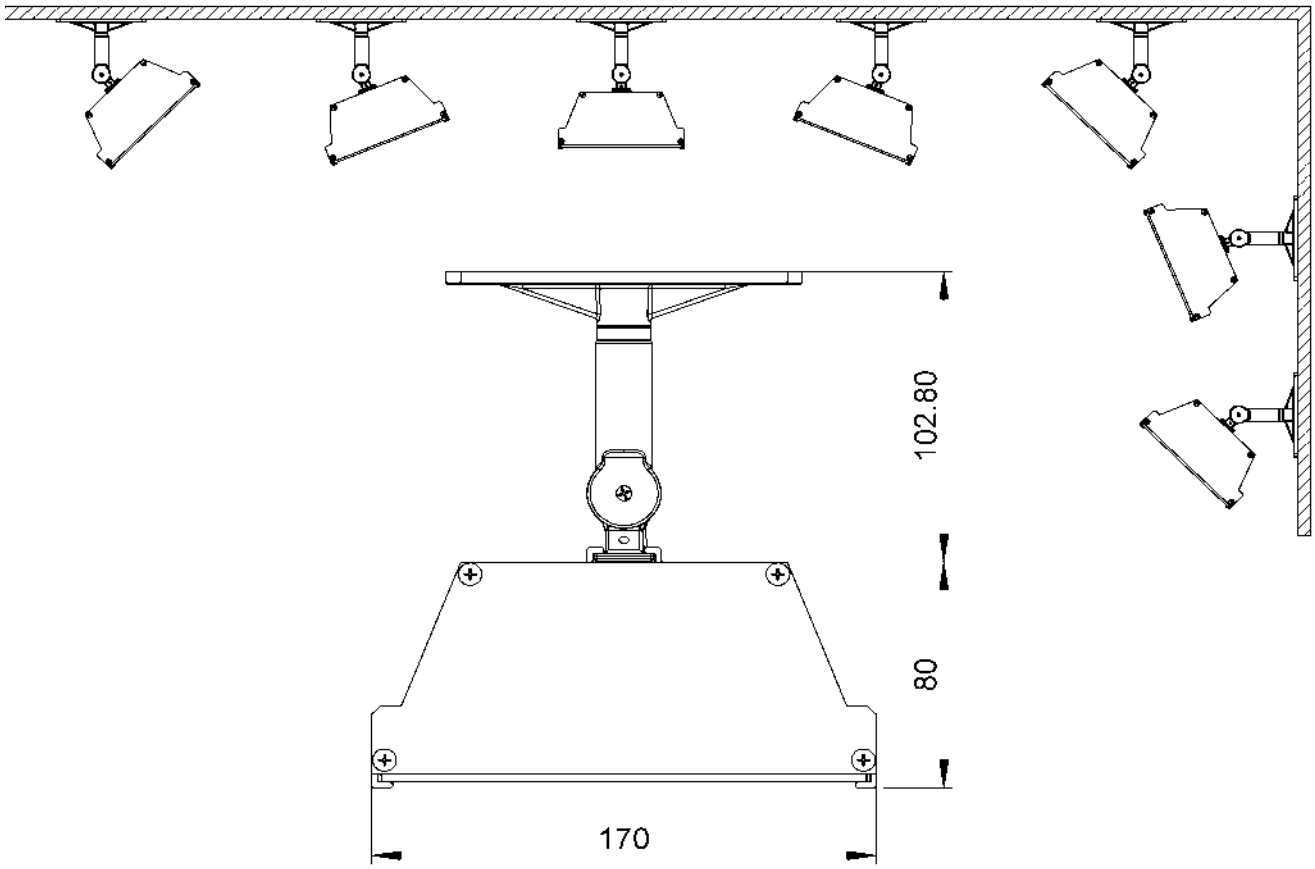
The flexible standard mounting bracket can be turned 90 degrees to mount onto a beam, it can also be used to suspend with chains.

The brackets need to be mounted onto a secure frame or wall with a minimum distance between the two brackets. The minimum distance (“B”) for each model is listed on the next page.

When completing the installation, ensure all screws are tight and unit is secure.

Note: When suspension mounting, chains are not included.

Minimum recommended clearance is required from combustible material – if the material is not combustible, the minimum clearance is reduced.



Standard Mounting Bracket

PART No	PACKAGED DIMENSIONS (mm)	WEIGHT (kg)	MATERIALS
ZBRAK-132B	125 x 100 x 40	0.2	ALLOY

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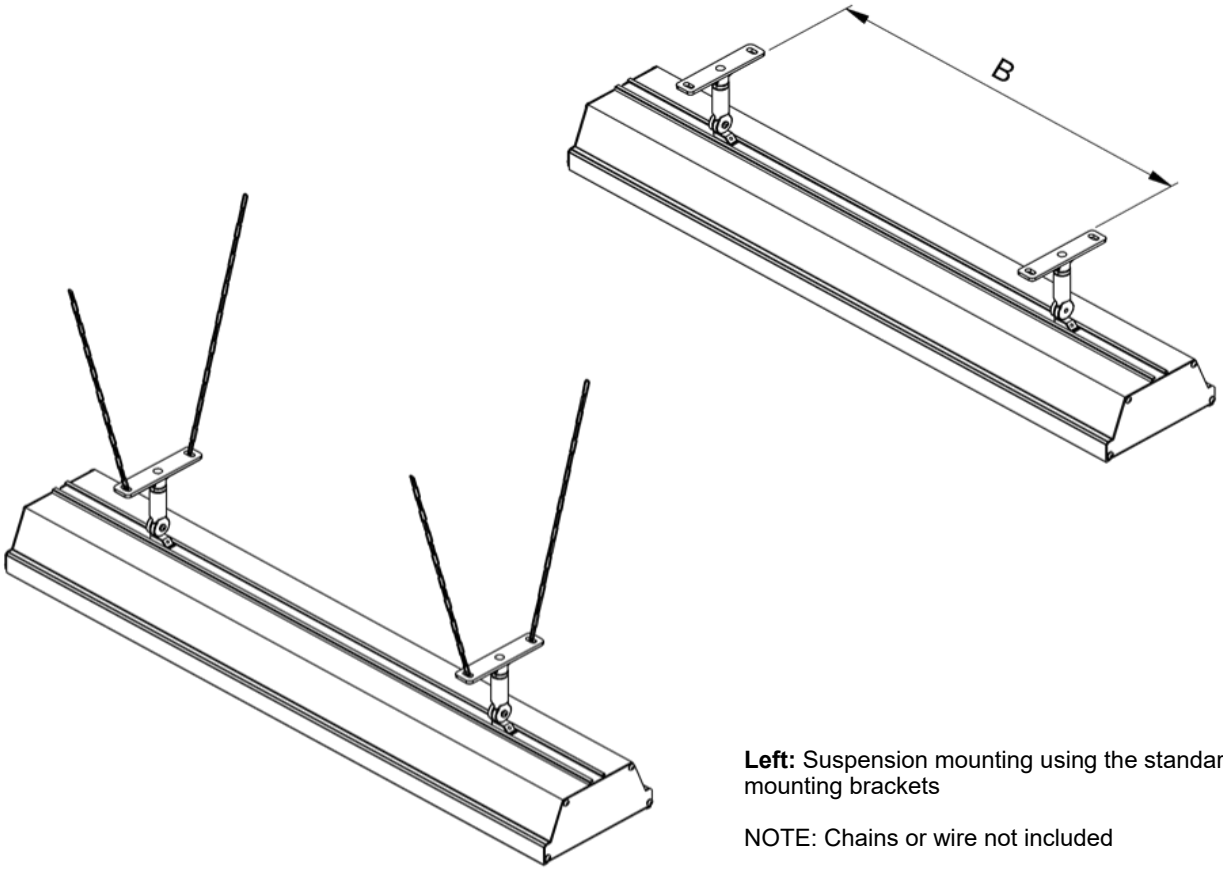
MOUNTING

Fix the two mounting brackets to the ceiling or wall in the desired location (refer minimum bracket centre chart). Make sure the method of fixing (bolts or screws) will be more than strong enough to support the weight of the heater, allowing for strong winds and other conditions.

- Slide the 2 locking brackets into the groove on the back of the heater. Make sure the pins on the locking bracket are facing the matching holes in the top mounting bracket.
- Lift heater into position and secure the 2 locking brackets to the mounting brackets using the screws provided. Make sure the 2 pins on the locking bracket engage with the matching holes in the mounting bracket. The pins will allow for both horizontal or angle mounting as required
- Tighten all screws and tighten the round nut at the top of the bracket, so it locks onto the top part of the mounting bracket.

NOTE: the standard bracket allows for normal or angle mounting of the heater and is suitable for ceiling or wall mounting.

MODEL	"B" MINIMUM DISTANCE (mm)
THX4000DC	400
THX6000DC	600



Left: Suspension mounting using the standard mounting brackets

NOTE: Chains or wire not included

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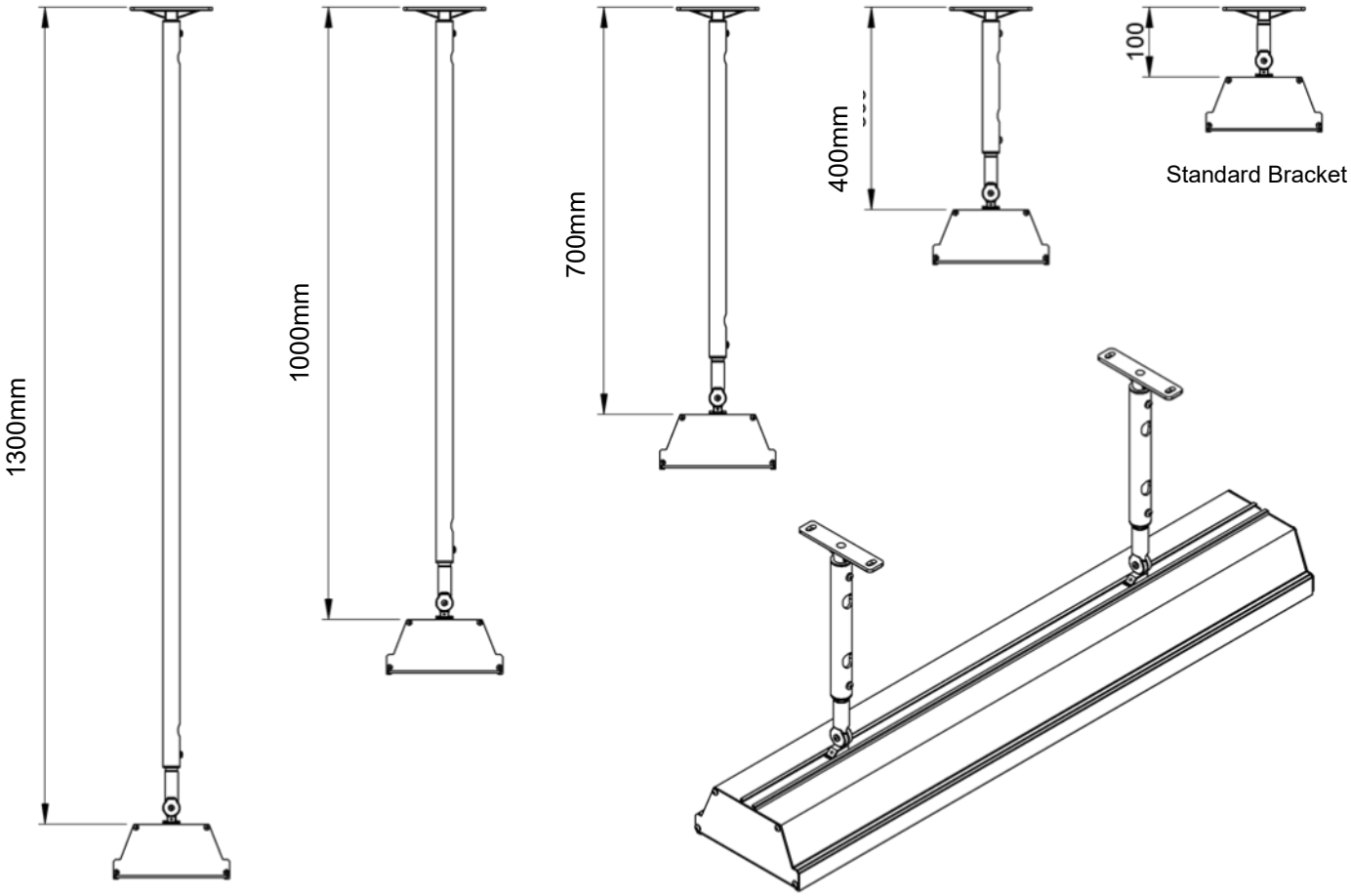
Extension Mount Bracket

The Extension Mount bracket allows HEATSTRIP® Max DC units to be lowered from high ceilings, using rigid connections. The brackets are designed to be used with 20mm x 1mm round tube (SHS), and supplied as a complete kit that attaches to standard mounting brackets supplied with the heater. The standard length options as part of the kit are 150mm, 300mm, 600mm, 900mm and 1200mm.

Note: Standard brackets provided with the HEATSTRIP Max DC heaters is required when using the extension mounting poles. *screws to ceiling are not included



PART No	PACKAGED DIMENSIONS (mm)	WEIGHT (kg)	MATERIALS	NOTES
THYAC-047	300 x 150 x 50	0.21	Alloy	Kit includes 2 x 300mm extension poles, Black
THYAC-048	600 x 150 x 50	0.38	Alloy	Kit includes 2 x 600mm extension poles, Black
THYAC-049	900 x 150 x 50	0.55	Alloy	Kit includes 2 x 900mm extension poles, Black
THYAC-050	1200 x 150 x 50	0.71	Alloy	Kit includes 2 x 1200mm extension poles, Black

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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 HEATSTRIP® Max DC products will be free from defects in materials and workmanship for a period of 36 months for commercial applications, from the date of purchase in accordance with the following warranty terms and conditions.

Provision of this warranty is subject to:

- The HEATSTRIP® product must be installed in accordance with the Installation Instructions and relevant electrical standards and codes.
- The HEATSTRIP® 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.
- Discolouration of the surface may occur after a period of time, this does not constitute a warrantable event.
- Twisting and bending of the heaters may occur, this does not constitute a warrantable event.
- 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

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