

Installation and Technical Manual for the Thermapanel Electric Radiators



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APPENDIX 1

1. General information

The Thermapanel electric radiators can be installed as general, additional or interseasonal heating in any room or living area, except for the locations and conditions highlighted in the Safety instructions section.

The same applies to the Thermapanel Conservatory radiators which are also ideal for use below windows which have low sills.

All Thermapanel radiators are manufactured to the highest of Standards to ensure both safety and quality. Each radiator is CE Marked and carries the necessary European Approvals.

All radiators are fully checked and tested prior to leaving the factory and as such each radiator is packed with its own Quality check certificate.

We guarantee that no asbestos materials are used in the manufacture of these products.

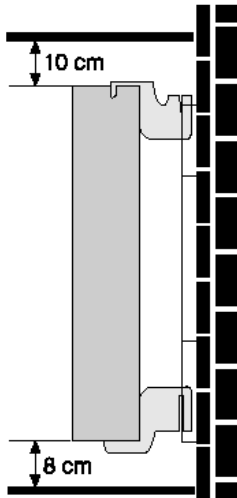
2. Technical data

The range comprises of the following models and sizes

Line-voltage	Frequency	Output	Protection class	Nominal dimensions W x H x D
(ACV)	(HZ)	(Watts)		(mm)
230	50	5	350 x 330 x 70	
230	50	800	1	350 x 620 x 70
230	50	1000	1	650 x 620 x 70
230	50	1500	1	950 x 620 x 70
230	50	2000	1	1250 x 620 x 70
230	50	2500	1	1550 x 620 x 70
<u>CONSERVATORY</u>				
<u>RADIATORS</u>				
230	50	500	1	650 x 330 x 70
230	50	1000	1	820 x 330 x 70
230	50	1600	1	1250 x 330 x 70
230	50	2000	1	1550 x 330 x 70
<u>TOWEL RAIL</u>				
230	50	1200	1	640x1020x140

3. Installation instructions/wall fixing

The Thermapanel radiators should be installed taking care to comply with the recommended minimum clearances.

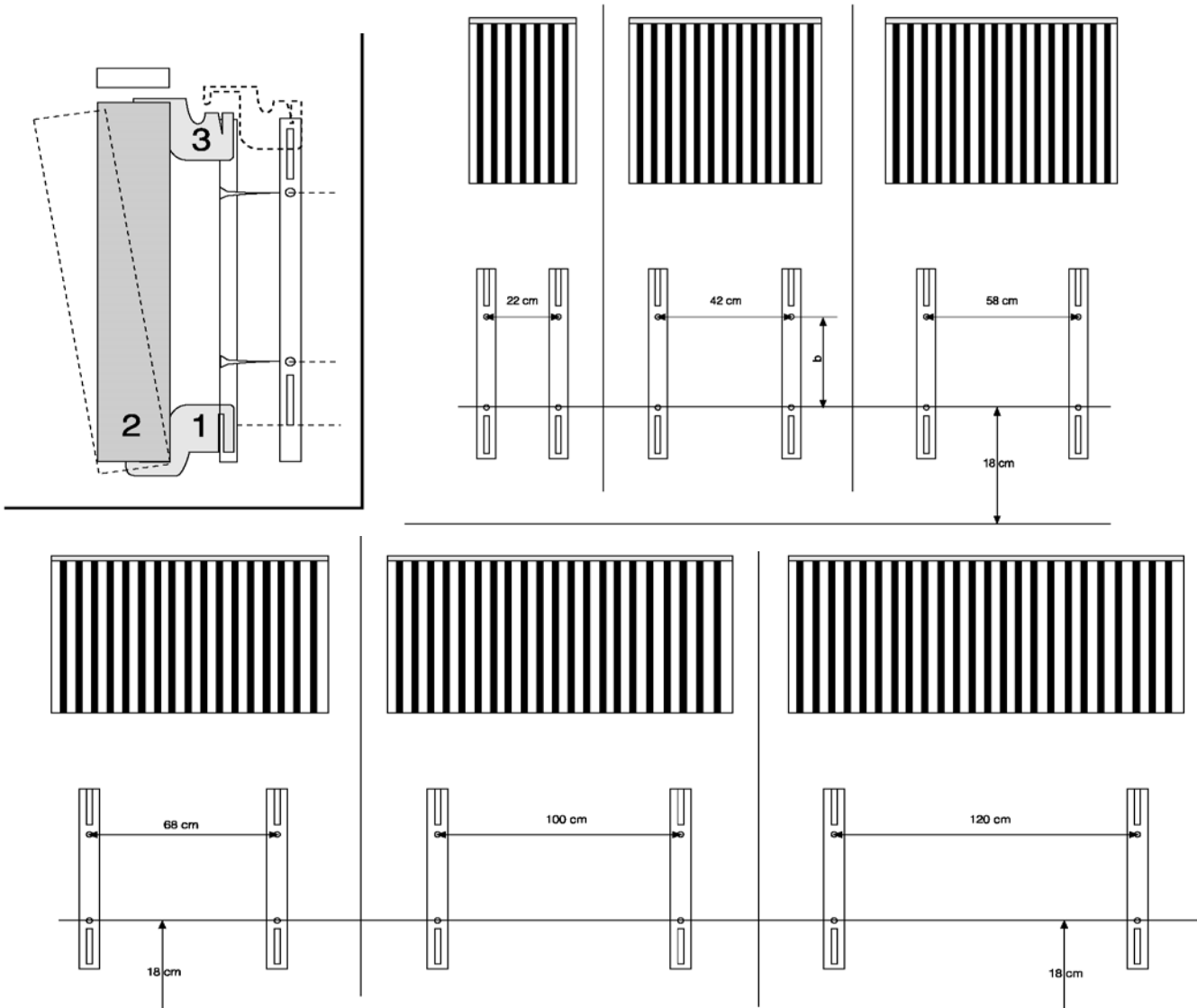


1. Fix the U-shaped brackets as shown in the drawing below
2. Hang the lower suspension hooks (1) into the U-shaped brackets
3. Hang up the heater (2) while tilting it forwards
4. Insert the upper suspension hooks (3) and pull them up
5. Bring the heater (2) in an upright position
6. Push the upper hooks (3) down

The brackets are fastened to the wall by means of plastic plugs 6/8x40 and hexagon head cap wood screws 6x60.

There are also two fixing screws on the top panel these screws must be used to lock the radiators top panel and

brackets.



Radiator dimensions (mm)

B	x	H
350		330
650		330
820		330
1250		330
1550		330
350		620
650		620
950		620
1250		620
1550		620

Fastening dimensions (mm)

a	
220	a Represents the distance between each Fixing Bracket. This figure should be halved and measured either side of the centre point of the Radiator for the Bracket fixing positions.
420	
580	
1000	
1200	
220	
420	
680	
1000	
1200	

4.Connection to the mains Power

All radiators are supplied with wall mounting brackets, however with the exception of the Towel Rail they can also be mounted on feet or castors. Each radiator has a factory fitted standard 3 pin plug with a 1.5 metre flex.

Please note that Portable radiators must not be fitted in bathrooms or wet areas.

When radiators are to be fitted in bathrooms they must be permanently fixed and positioned in such a way that no person can touch the radiator control thermostat.

The Thermapanel control box can be used in conjunction with multi radiator systems. This will provide a fully controllable system throughout the property. This method will enable you to control the system in the same fashion as a traditional wet central heating system via a single channel programmer and room thermostat.

All radiators must be connected to a 20amp double pole fused switched spur and supply cables returned to the control box for power connection. This system setup will act as a direct replacement for storage heating systems.

All wiring must be carried out in accordance with current standards and IEE regulations to BS 7671.

All electrical connections must be made by a qualified tradesman.

All electric circuits must be rated to suit the installed power consumption for each radiator.

After completion of all works, an electrical safety check should be carried out ie: short circuit, earth continuity, resistance to earth and polarity check and all the relevant test certificates produced.

5. Important safety instructions

Keep the following minimum safety distances to avoid fire risk due to high surface temperatures of the appliance during heating cycles:

Lateral heating walls – masonry	5 cm
Lateral heating walls – combustible matter	10 cm
Heating walls above floor	8 cm
Cover plate – combustible covering installed on top of it	15 cm
Cover plate – non-combustible covering installed on top of it	10 cm

Do not operate the appliance in the vicinity of a swimming pool!

When the appliance is to be installed in a bathroom the relevant regulations must be adhered to with regards to the radiator type positioning of the radiator.

Please note that our IPX4 rated models should be used in bathrooms.

Do not place combustible objects directly on top of the radiators (e.g. paper, towels, blankets, clothing etc)

Please observe the warning label located on the radiator stating - Do not cover the Radiator.

The appliances may not be located directly below a wall socket.

6. Fully Programmable Thermostatic Control

When this system is used, the overall ambient room temperature is controlled via the room thermostat. This would normally be located in the coldest area within the property which is usually the hallway. Where the hallway is restricted in size the thermostat should be installed in the Main Living area.

This system enables you to control your overall system by both time and temperature throughout all heating cycles i.e. you are able to set your system to suit your lifestyle 24/7.

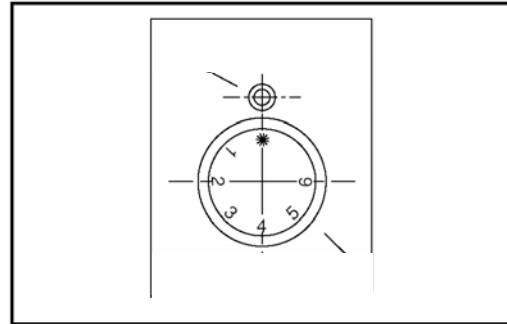
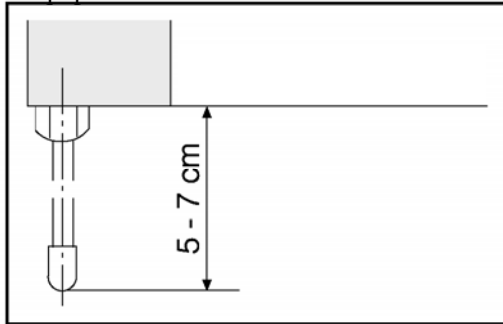
Thereafter each radiator can be controlled individually by simply operating the thermostatic control knob located on the side panel of the radiator. This can be set to meet the temperature requirements of the room by simply turning the knob until you reach your desired room temperature.

When the overall system reaches the set temperature on the room thermostat, the power supply is disabled to all radiators, however the radiator will continue to radiate the heat that has been stored within the radiator. When the room temperature falls below the set temperature on the room thermostat, the power will automatically be enabled which will allow the radiators to maintain the required temperature in each room.

Alternatively you can request a higher temperature on the room thermostat which will also enable the power to the radiators.

Each radiator has a thermistor sensor installed on the underside of the radiator. This is designed to determine the room temperature. Please note that this should protrude between 5 & 7cm from the locating screw. The diagrams below show the positioning of the thermistor and the knob.

Corner equipment below Knob of the regulator Signal indication



The luminous indicator (Red LED) above the control knob will indicate the status of the heating:

- LED lit: heating on or the set temperature has not been reached.
- LED not lit: heating off or the set temperature has been achieved.

The Thermostat is operated by turning the control knob:
turning it clockwise allows you to increase the temperature.
turning it anti-clockwise allows you to reduce the temperature.

The temperature can be regulated from approx. 10°C to 30°C, including a frost protection setting of approx. 5°C.

With reference to the luminous indication (red LED) the settings correspond as follows:

- setting * : approx. 5°C (frost protection)
- setting between * and 1: approx. 10°C
- setting 4: approx. 20°C
- setting 6: approx. 30°C

Notes

Forced turning beyond the end settings of the control knob will cause damage to the thermostat components and as such will invalidate the warranty.

Please note that only the Towel Radiators and IPX4 rated Radiators may be used in Wet areas.

Radio Frequency operated Radiators

For instructions as to the installation, coding and operation refer to the multilingual operating instructions provided with the wireless Programmer and Room Thermostat.

7. Fault finding

In the event that heater does not heat at all, please check that the electrical connections to the Radiator are sound i.e. check the mains connection and fuse or insufficiently.

If this does not resolve the problem, please contact your supplying dealer for assistance.

We would like to take this opportunity to thank you for purchasing our products and to wish you many years of comfortable warmth to come.