

Convactor Panel Heater

Effective at heating rooms quickly



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Warranty terms & conditions for ThermoSphere Convector Panel Heater

For the ThermoSphere Convector Panel Heater (TSCR), Thermogroup Ltd will repair or, if necessary, at its sole discretion, replace the product, which falls within the Warranty Periods and Territory specified below, subject to the warranty conditions and the warranty exclusions. Warranty Period within the United Kingdom is 2 years from the date of purchase by the consumer as defined by the Competition and Consumer Act 2010.

Our goods come with guarantees that cannot be excluded under the UK Consumer Law. You are entitled to a replacement or refund for a major failure. 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. It is the responsibility of the consumer to provide proof of purchase within the Territory.

WARRANTY CONDITIONS

1. This warranty is applicable only for TSCR appliances.
2. The TSCR must be installed in accordance with the TSCR Installation Instructions, to be supplied with the TSCR, and in accordance with all relevant statutory and local requirements of the Territory in which the TSCR is installed.
3. Where a failed component or TSCR is replaced under warranty, the balance of the original warranty period will remain effective. The replaced part or TSCR does not carry a new warranty.
4. Where a failed component or TSCR is replaced or repaired under warranty, ThermoSphere will incur costs associated with shipping and repair at its sole discretion, if the unit is installed within the UK. If the unit is outside the UK, the associated costs are the responsibility of the owner.
5. Where the TSCR is installed in a position that does not allow safe, ready access, the cost of accessing the site safely, including the cost of additional materials handling and/or safety equipment, shall be the owner's responsibility.
6. The warranty only applies to the TSCR and therefore does not cover any accessories or electrical parts supplied by others and not an integral part of the TSCR, e.g. electrical switches and electrical cabling.
7. The benefits of this warranty are in addition to other rights and remedies of the consumer under laws in relation to the goods and services to which the warranty relates.
8. The TSCR must be sized to provide adequate heat for the room and must not be installed as the sole source of heat in rooms larger than the recommended area. Doing so can cause premature ageing and failure of the heating elements.

PROCEDURE FOR HONOURING WARRANTY

1. To initiate a claim for a warranty against defects, the consumer shall contact: Thermogroup Ltd T/A ThermoSphere, Bridge House, Pattenden Lane, Marden, Kent, TN12 9QJ, United Kingdom. Hello@thermosphere.com. 0800 0195899.
2. The process will then be followed to assess whether the product is under warranty.

WARRANTY EXCLUSIONS

Repair and replacement work will be carried out as set out in the ThermoSphere warranty. However, the following exclusions may cause the ThermoSphere warranty to become void and may incur a service charge and/or cost of parts:

1. Accidental damage to the TSCR or any component, including: Acts of God; failure due to misuse, abuse, fire or flood damage; incorrect installation; damage as the result of transportation, removal or storage; attempts to repair the TSCR other than by a ThermoSphere Accredited Service Agent, the ThermoSphere Service Department or a repairer not approved by ThermoSphere.
2. Where it is found there is nothing wrong with the TSCR; where the complaint is related to circumstances where there is no heat due to faulty installation; where water leaks are related to plumbing and not the TSCR or TSCR components; where there is a failure of electricity supply; where the supply of electricity does not comply with relevant standards, codes or acts, ThermoSphere may then charge the consumer a nominal service charge if inspection reveals no fault with the TSCR unit or its installation.
3. Where the TSCR is located in a position that does not comply with the TSCR Installation Instructions or relevant statutory requirements, causing the need for major dismantling or removal of cupboards, doors or walls, or use of special equipment to bring the TSCR to a suitable position.
4. Repair and/or replacement of the TSCR due to the effects of poor air quality, excessively dusty environments or misuse.
5. Subject to any rights you have under UK Consumer Law or other statutory provisions to the contrary, this warranty excludes any and all claims for damage to furniture, carpets, walls, foundations or any other consequential loss.

MAINTENANCE

To maintain performances of your unit, you should clean the upper and lower grilles of the unit above twice a year using a vacuum cleaner or a brush. Dirt may collect on the grille of the unit if the atmosphere is polluted. This phenomenon is due to the poor quality of the ambient air. In this case, it is recommended to check that the room is well ventilated, and that the air is clean. The unit will not be replaced under the guarantee because of this type of dirt. The unit casing should be cleaned with a damp cloth, never use abrasive products.

Before installation and first use

Please read through this guide before commencing installation, to ensure you are familiar with the component parts the installation procedure and all of the general do's and don'ts.

This unit must be installed by a skilled professional electrician, ensuring installation conforms to all current electrical wiring standards.

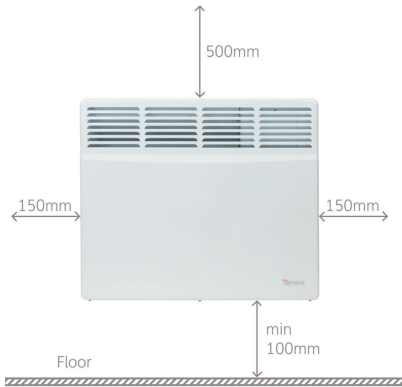
If the safety rules or the instructions outlined in this manual are not followed correctly, the unit may not operate properly and could cause damage to property, serious bodily injury and/or death.

ThermoSphere nor its Distributors will be liable for any damages due to failure to comply with the installation and operating instructions outlined in this manual or through improper use.

IMPORTANT SAFETY INFORMATION

- Read all instructions before using this appliance and keep them for future reference.
- Use only the voltage specified on the heater.
- Do not cover or restrict air flow through the heater. This can cause overheating and is a fire risk.
- Do not install in enclosures, cupboards, under shelves, desks or any other enclosed space.
- Allow adequate clearance around the heater to facilitate air flow and avoid over heating.
- Allow 500mm of clear space above the heater.
- Allow 150mm of clear space to the sides of the heater.
- Allow 100mm of space below the heater.
- Do not install in bathrooms or near water sources.
- Do not install other heat sources near the heater.
- Do not operate in areas where flammable liquids, gases or other materials are in use.
- Do not operate in excessively dusty environments.
- Do not touch the radiator surface, other than switches and control when it is in use.
- Do not use the appliance to dry clothes or any other material.
- Do not insert or allow foreign objects or metal utensils to enter any openings on the heater. This could create an electric shock hazard.
- Do not expose to or immerse in any liquid. This can create an electric shock hazard and damage the heater.
- Do not operate any appliance with a damaged power cable or plug or damage of any kind. Consult a competent electrical professional for examination and repair of the heater.
- Do not operate the heater with wet hands.
- Regularly unplug and vacuum the air inlets and outlets of the appliance to remove excess dust and fluff. This will reduce the likelihood of overheating.
- To clean the heater you must isolate it from the electrical supply and use a clean damp cloth and mild dish soap.
- Do not use strong chemical or abrasive cleaning products.
- Only operate the heater when it is fixed securely to a wall and in an upright position.
- Do not use with an extension cord or when the power cord is coiled.
- Do not remove the plug from the socket until the heater has been switched off.
- Do not pull on the power cord or subject it to excessive force.
- Do not allow the cable to come into contact with the heater surface while in operation.
- The plug or wiring point must not be situated behind the heater.
- This heater is not for use by young or children or vulnerable people without supervision.
- Use this appliance only as instructed in this manual. Any other use is not recommended and may cause fire, electric shock or injury.
- This appliance is intended for domestic use.

Dimensions



Installation



Install the wall bracket

1. Check the fixing dimensions of your heater.
2. Measure and mark the fixings on the wall.
3. Drill a pilot hole if required and use suitable fixings for your wall substrate. Ensure the fixings and wall can support the weight of your specific heater.
4. Fix the brackets to the wall ensuring they are level.



Hang and secure the heater

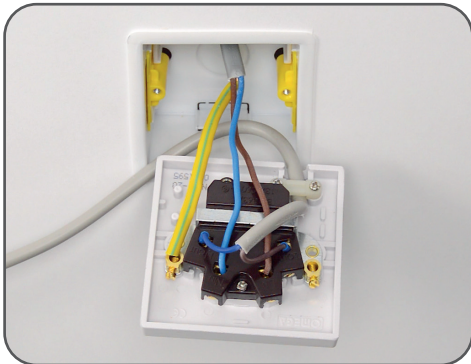
1. Hook the springs into the holes at the top of the heater.
2. Lift the heater to stretch the springs.



Locate the hooks at the bottom of the bracket into the holes in the under-side of the heater.

This will lock your heater in place.

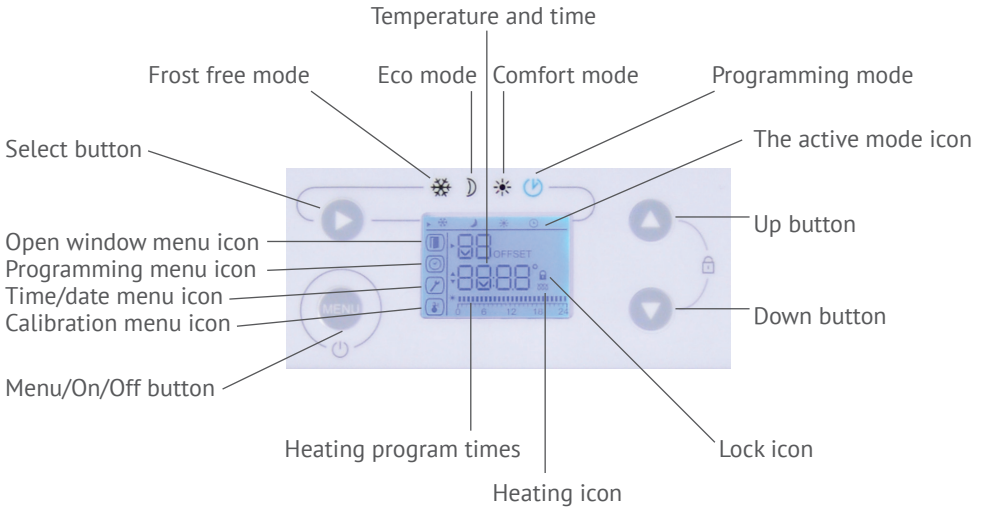
Wiring



- Each heater is wired to the mains electricity supply via a fused spur.
- Isolate the electrical supply before carrying out any electrical work. Electrical work must comply with IEE regulations and must only be carried out by a skilled professional.
- Wire the heater to the load side of the fused spur. This heater is Class II double insulated and does not have an earth wire.
- Secure the front plate of the fused spur in position.
- Check the fuse in the fused spur is suitably rated for your convector heater. it should be as close to the rated current of the convector as possible. not below.
- Switch the power to the circuit back on at the distribution board, and switch the fused spur on.
- Switch on the convector's power button.



Control panel overview



Heating modes

Description	When used
Comfort mode	Use when at home. The convector works to maintain the set comfort temperature set. The default comfort temperature is 21°C. You can adjust it from Economy temperature +1°C to 30°C.
Economy (Eco) mode	Use when you are away from home for short periods (from 2 to 48 hours) or you are sleeping. The convector works to maintain the set Eco temperature and save energy. The default Eco temperature is 17°C. You can adjust it from 7°C to the Comfort temperature -1°C.
Frost free	Use when you are away from home for long periods (more than 48 hours). The temperature is automatically set to 7°C and cannot be changed.
Programming	Use when you want your heater to heat based on a programmed heating schedule. You can choose one of five pre-set programs or three user-set programs which can be customised.

Display sleep

If the screen is not switched on, press any key to make it light up. The screen lights up and stays on for 30 seconds after the last time any key is pushed.

Waking up the screen will not affect any settings.

Comfort mode

Press the Select button several times until the cursor is below the Comfort icon. You can adjust the comfort temperature by pressing the up and down buttons.

After 10 seconds of inactivity the comfort temperature is saved and the display will show the set comfort temperature.

If the set comfort temperature is higher than the measured room temperature, the heating indicator is displayed and the convector starts heating the room.

Eco mode

Press the button Select button several times until the cursor is below the Eco mode icon. You can adjust the Economy temperature by pressing the up and down buttons.

After 10 seconds of inactivity the Eco temperature is saved and the display will show the Eco comfort temperature.

If you set the Comfort temperature lower than the Economy temperature, the Economy temperature will automatically decrease by 1 °C lower than the Comfort temperature.

Frost free mode

Press the button Select button several times until the cursor is below the Frost free mode icon. The frost free temperature is always 7°C and cannot be changed. After 10 seconds of inactivity the Frost free mode is activated.

Programming mode

If the screen is not switched on, press any key to make it light up. The screen lights up and stays on for 30 seconds after the last time any key is pushed.

Waking up the screen will not affect any settings.

Pre-record programs:

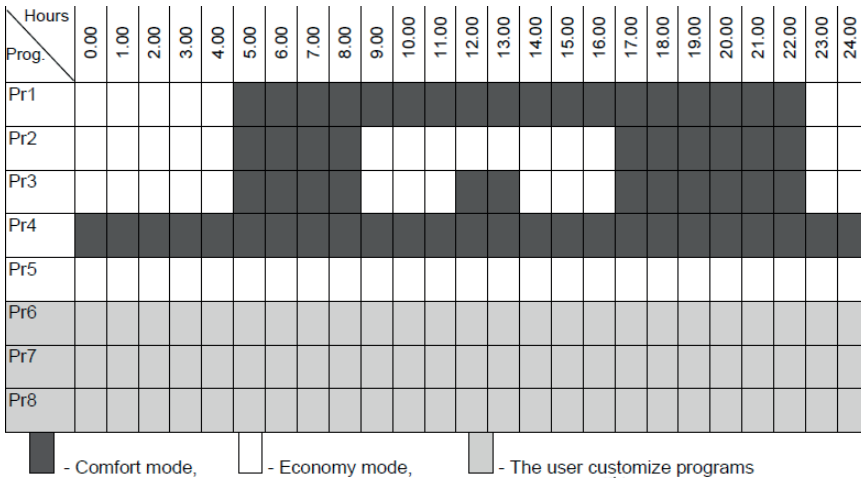
Pr1 is recommended for a constant presence

Pr2 is recommended for absence in the day

Pr3 is recommended for absence in the day and if you return to home for lunch time

Pr4 permanent Comfort


Pr5 permanent Economy



- Press the button ► several time until the cursor is below the pictogram ⌚. On each day of the week the default program is Pr1. If you want to modify the program press the button ON-OFF/MENU several times until the selection of the programming icon ⌚.
- Press the button ► to choose the day, press the top ▲ or bottom ▼ button to choose your desired program from Pr1 to Pr5. After 10 seconds of inactive the program is recorded.
- Repeat this operation for each day of the week. You can modify the active temperature by press the top ▲ or bottom ▼ button. After 10 seconds of inactive the temperature is recorded.








Open window detection:

This function makes it possible to detect an open window and automatically to switch off heating for 15 minutes.




- Press the button ON-OFF/MENU several times until the selection of the open window icon . You can choose to activate (ON) or deactivate (OFF) function by pressing the top or bottom button. After 10 seconds of inactivity the selection is recorded. Reinstating normal operation occurs automatically, but can be activated by pushing any key.

Adjust time and date:



To adjust date and time push the button ON-OFF/MENU several times until the selection of the wrench icon .

- Press the button , when the hour icon blinks you can adjust the hours by pressing the top  or bottom  button.
- Press the button , when the minute icon blinks you can adjust the minutes by pressing the top  or bottom  button.
- Press the button , when the day icon blinks you can adjust the day by pressing the top or bottom button. After 10 seconds of inactivity day and time are recorded.

Calibrate the temperature:

To calibrate the temperature push the button ON-OFF/MENU several times until the selection of the calibration icon , the OFFSET appears. You can calibrate the difference of temperature (+3°C/-3°C) by pressing the top  or bottom  button. After 10 seconds of inactivity the convector switches on the standard display.

Locking controls:

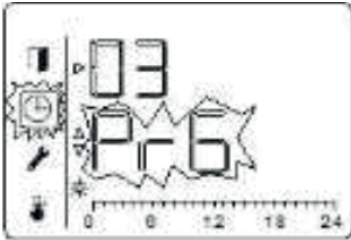
You can lock the controls with a long pressure simultaneously on the  and  buttons to prevent unauthorized people from altering them, the padlock icon will appear. Make the same operation to unlock the controls.

NOTE: IF THE APPLIANCE IS DISCONNECTED THE LAST SETTINGS ARE SAVED.

Customize P6, P7, P8 programs:

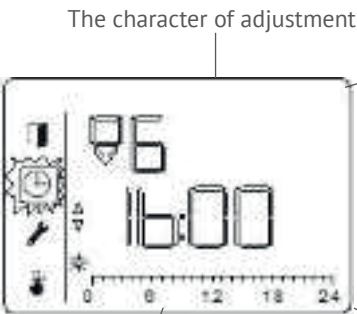
Program P6, P7, P8 may be modified to suit the user's needs. The initial view of the programs P6, P7, P8 is permanent economy mode. The user can set up to 3 intervals of Comfort mode at each program.

- Press the button ON-OFF/MENU several times until the selection of the programming icon ☞
- Press the button ▶ to choose the day, press the top or bottom button to choose program Pr6.



03-it is **third** day, the **Pr6** program.
Pr6 - ECONOMY mode for 24 hours

- Press simultaneously MENU button and ▶ button to switch to the program settings mode. When enter to the program setup mode, a “pencil” and the number of the program to be adjusted must be displayed as on the picture below:



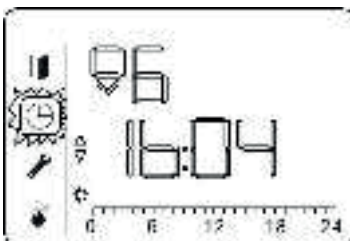
The character of adjustment

Number of adjusted program

The period number of COMFORT mode

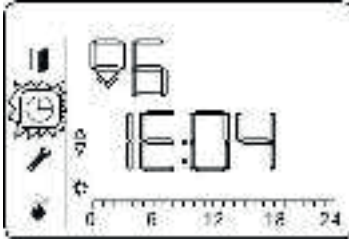
The beginning of period (b) or the end if period (e)

- Use the ▲ or ▼ buttons to change the hour value of the start of the COMFORT mode. Set the beginning of the first period to 4 hours.



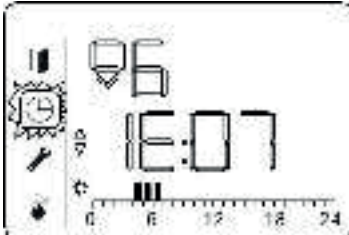
Indication of the start time of the COMFORT mode (1b beginning)

- Press the ► button to confirm the selected value of the beginning of the COMFORT mode. The program switches to the mode for selecting the hour of the end of the COMFORT mode.



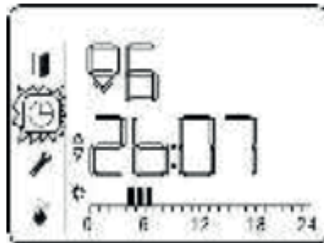
The indication of the hour at the end of the COMFORT mode

- Use the ▲ or ▼ buttons to change the hour value of the end of the COMFORT mode. Set the end of the first period to 7 hours.



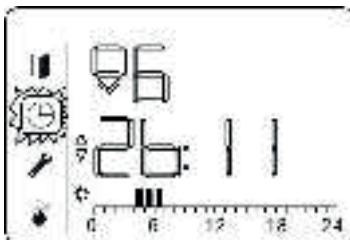
The scale of the daily program displays the sectors of the first period COMFORT

- Press the ► button to confirm the selected value of the end of the COMFORT mode. The program switches to the hour selection mode, from which the second period of the COMFORT mode begins.



The display will show start time of the second period COMFORT 2607

- Use the ▲ or ▼ buttons to change the hour value of the start of the second period COMFORT

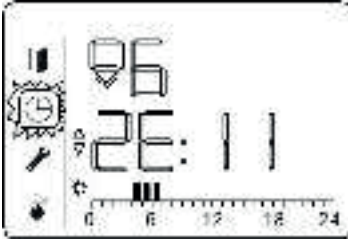


Set the start of the second period to 11 hours

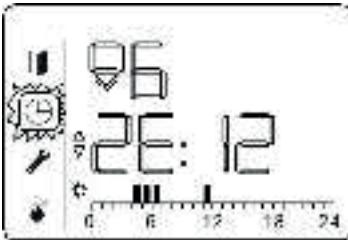
Customize P6, P7, P8 programs:

Program P6, P7, P8 may be modified to suit the user's needs. The initial view of the programs P6, P7, P8 is permanent economy mode. The user can set up to 3 intervals of Comfort mode at each program.

- Press the ► button to confirm the selected value of the beginning of the second period COMFORT.

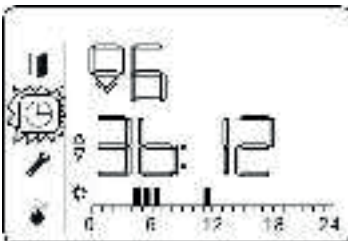


- Use the ▲ or ▼ buttons to change the hour value of the end of the second period COMFORT. Set the end of the second period to 12 hours.



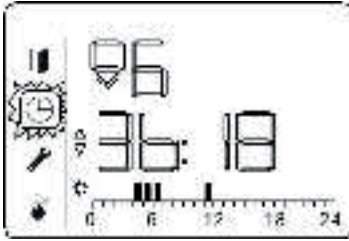
The scale of the daily program displays the sector of the second period COMFORT

- Press the ► button to confirm the selected value of the end of the second period COMFORT. The program switches to the hour selection mode, from which the third period of the COMFORT mode begins.

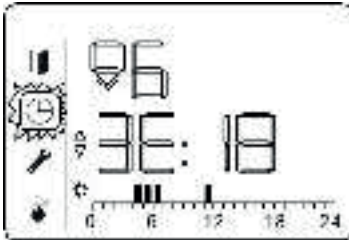


The display will show the start time of the third period COMFORT 3b12.

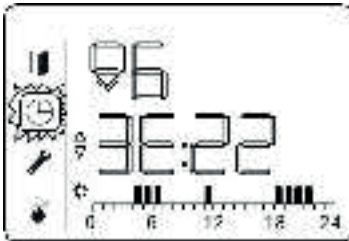
- Use the ▲ or ▼ buttons to change the hour value of the start of the third period COMFORT. Set the start of the second period to 18 hours.



- Press the ► button to confirm the selected value of the beginning of the third period COMFORT. The program switches to the mode for selecting the hour of the end of the third period COMFORT.

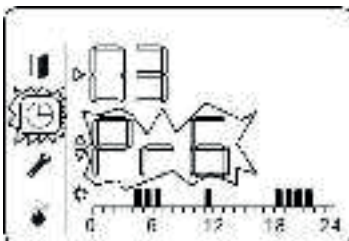


- Use the ▲ or ▼ buttons to change the hour value of the end of the third period COMFORT. Set the end of the third period to 12 hours.



The scale of the daily program displays the sector of the third period COMFORT.

- Press the ► button to confirm the selected value of the end of the third period COMFORT.



After confirming the end of the third COMFORT period, the system automatically exits the setup mode to the main user menu

User guide

Make sure your heater has been installed safely and in line with the fitting instructions before first use. If you are in any doubt you should contact the person that installed it for you. The heater should be plugged into a socket or wired directly into a fused spur next to the heater.

Switching on

1. To use the heater press the power switch (21) to the on position.
2. When the heater has power it will beep, the LEDs will all flash and the power LED will stay on.
3. Press the **Power** button to turn the heater on.
4. In the event of a power failure the heater will remember the mode it was in when the power failed, but you must press the power button to turn it back
5. on again.

Setting the time

1. When the power is on press and hold **Set** and **OK** at the same time for 5 seconds until "Mon" starts flashing.
2. Use the **up** and **down** arrows to select the correct day. Press **Set** to confirm.
3. Now the hours will be flashing. Select the right hour using the **up/down** arrows and press **Set** to confirm.
4. Now the minutes will be flashing. Select the right minute using the **up/down** arrows.
5. Press Set to confirm and exit

Set the temperature

1. When the power is on select a temperature using the up/down arrows.
2. After 10 seconds the heater will remember your selection.

This is the temperature that your radiator will heat to whenever it is on and it applies in manual, timer and auto modes. You can change it at any time.

Set the timer

When in Manual mode (M), you can simply have the heater on until you turn it off, or you can set a time at which you want the heater to switch itself off.

1. Press the **M/A** button to choose M mode.
 2. Press **Set** to adjust the timer and the hours will flash.
 3. Press **Up** and **Down** to adjust the hour and then press **Set** to confirm.
 4. Now the minutes will flash. Press **Up** and **Down** to adjust the minutes. Press **OK** to finish
- If you select a time that is before the current time the heater will continue until the set time on the next day.

Set the 7 day schedule

You can set up an automatic 7 day heating schedule for your radiator. The schedule has 4 heating periods per day which must be set as complete hours.

For example you can set the heater to be on from:

06:00 to 08:00, 10:00 to 12:00, 14:00 to 16:00 and 18:00 to 22:00. You can only select complete hours.

To skip a heating period you can select the same on and off time. The heater will not switch on during any time period that is set with the same on and off time.

To set the 7 day schedule:

1. Press **M/A** to select Auto mode. You will see the A symbol on the display.
2. Press **Set** to start editing event 1 of the schedule.
3. Use **Up** and **Down** to select the day you wish to program. Press **Set** to confirm.
4. Press **Up** and **Down** to set the hour at which you'd like the heater to switch on. Press **Set** to confirm.
5. Press **Up** and **Down** to set the hour at which you'd like the heater to switch off. Press **Set** to confirm.
6. Repeat the steps for more heating periods and days.
7. Press **OK** when you're finished and your settings will be saved.

These steps show you how to program one time period on one day. Repeat the process for the remaining heating periods and the remaining days of the week.

Safety feature

The heater is equipped with a high temperature cut out system which is designed to help prevent over heating. The heater will automatically switch off if it detects an internal temperature above the high limit. Once the heater has cooled down it will switch back on again.

Model	Power (W)	Current (A)	Voltage	Size	Weight (kg)
TSCR-0500	500	460	155	254	254
TSCR-1000	1000	460	155	254	254
TSCR-1500	1500	595	250	254	254
TSCR-2000	2000	830	250	254	254

Model	L (mm)	H (mm)	L1 (mm)	H1 (mm)
TSCR-0500-A	460	155	254	254
TSCR-1000-A	460	155	254	254
TSCR-1500-A	595	250	254	254
TSCR-2000-A	830	250	254	254

ThermoSphere
 Bridge House
 Pattenden Lane
 Marden
 Kent
 TN12 9QJ
 UNITED KINGDOM

www.thermosphere.com
enquiries@thermosphere.com
 +44 (0) 800 019 5899



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