thermo Sphere

TSR

Instructions & installation manual

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1. CAUTION

- **Please read these instructions carefully.**
- To disconnect mains power from the radiator remove the plug from the wall socket, but never pull on the cable.
- Do not leave the mains cable in contact with the radiator when it is switched on.
- During operation, the radiator must be kept well away from combustible materials, such as curtains, carpets and furniture etc.
- **The warranty for the radiator does not cover any damage caused by not reading these instructions.**

WARNING: In order to avoid overheating, do not cover the heater.

- **WARNING: If the mains power cable is damaged, it must be replaced by the manufacturer, with their after-sales service or similar qualified persons, in order to prevent any danger.**

- **WARNING: If the heater is to be installed in a bathroom, it must be positioned so that it cannot be touched by anybody in the bath or shower.**
- **The installation should be carried out with consideration to the manufacturer's instructions and in accordance to the relevant National Wiring Regulations BS7671.**
- It is very important that radiator has a good Electric Earth connection.
- The radiator shall be installed so that its mains plug is always accessible.
- The radiator must not be installed below or in front of a mains socket.
- **This radiator cannot be surface-mounted with a wall. Safety distances shall always be respected.**
- **The radiator has a keyboard blockage option to prevent children from changing the programming.**
- This unit is not designed to be handled by persons (including children) with physical, sensorial or mental handicaps, with little experience or knowledge unless

they are under the supervision of an adult responsible for their safety with the instructions on its use. Children shall always be supervised to ensure they do not play with the unit.

• Children under three shall be kept well away from the heater unless they are continually supervised.

• Children between three and eight shall only switch the unit off or on providing it is positioned or installed in its final operating location and be supervised or have received instructions on how to use the unit in a safe manner and understand the risks involved.

• Children between three and eight shall not plug in, adjust or clean the heater or carry out any maintenance operations.

• This unit may be used by children older than eight and by persons with physical, sensorial or mental handicaps, with little experience or knowledge, provided they have been duly trained and are supervised by an adult that understands the risks involved.

• Cleaning and maintenance shall be performed by adults not children. Children must not play with the unit.

• **WARNING: Certain parts of this product can become very hot and cause burns.** Special attention shall be paid when children and other vulnerable persons are present.

• Do not touch the external parts of the radiator when it is operating.

• It is quite normal that, with the first switch-on, the unit produces a "new" smell. Allow your heater to operate in a well-ventilated place for two or three hours.

• Before the first switch on for the coming winter or when the heater has not been used for several days, the unit should be cleaned (follow the steps given in the "maintenance section" (page 43, point 4). This cleaning operation will avoid burning the accumulated dust and other remains.

• This radiator **CAN'T OPERATE** with external programmable controllers or any other exterior control device.

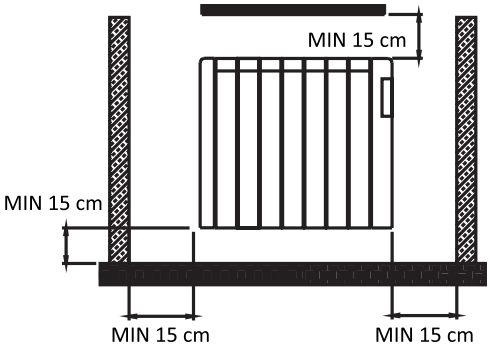
• **CAUTION:** Keep bags and other accessories well out of the reach of children.

- The convection effect, together with other ambient factors, can cause discolouring to metal surfaces and to plastics.
- Temperature differences can cause crackling and other noises in the unit. This does not indicate any failure in the radiator.
- The regulations on discarding oil when the heater is being disposed of must be observed.
- When the radiator is disposed of, the requirements established by current legislation on waste processing and recycling shall be taken into account.

2. INSTRUCTIONS FOR INSTALLATION

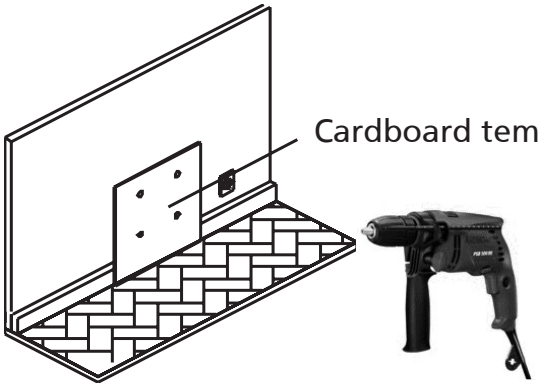
IMPORTANT

- It is important that the radiator **IS FIXED FIRMLY TO A SOLID AND LEVELLED WALL.**
- Make sure that there is a socket near the area where you are going to place it.
- Take out the wall pattern from the box to see the exact positions of the necessary drill holes.
- You must keep a minimum distance of 15 cm between the radiator and any object, wall or combustible material.



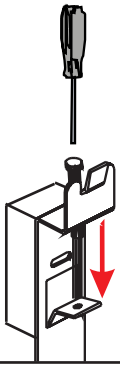
2. INSTRUCTIONS FOR INSTALLATION

1

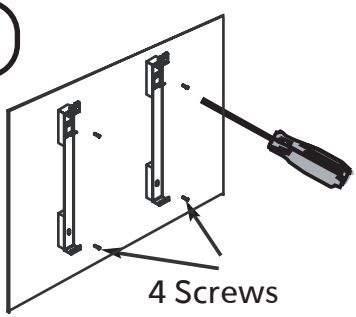


2

Place the screw but don't screw it fully. (M. 6 x 40 mm)

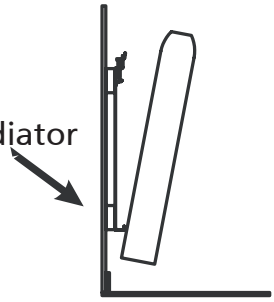


3

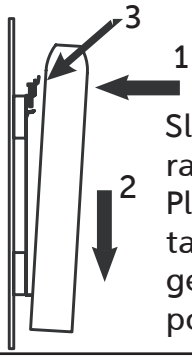


4

Place the radiator



5



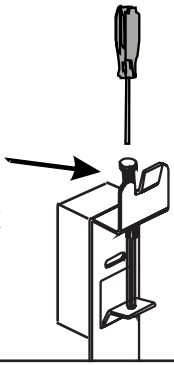
Slide the radiator up, Place over top tang and lower gently into position

2. INSTRUCTIONS FOR INSTALLATION

6

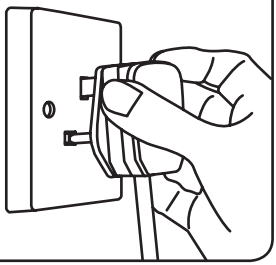
IMPORTANT:

Screw down **FULLY** to lock the radiator



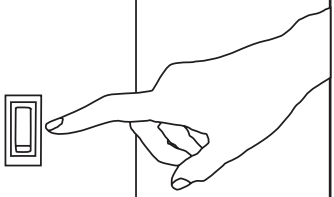
7

Plug-in 3 pin 13 amp plug

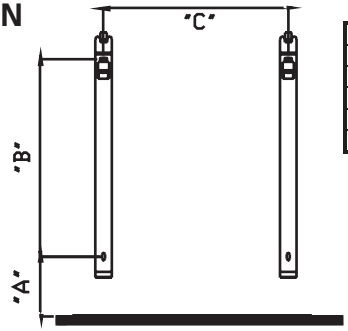


8

Press ON / OFF switch located at the right rear part of the unit.



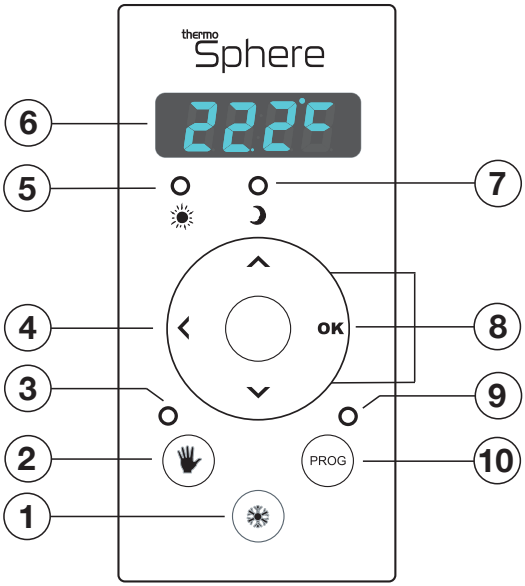
INFORMATION



(W)	"A" (mm)	"B" (mm)	"C" (mm)
600	420	246	159
900	420	246	319
1200	420	246	478
1500	420	246	638
1800	420	246	638

3. OPERATION

3.1 CONTROL PANEL



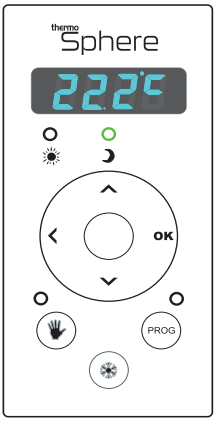
1. Anti-freeze mode button
2. Manual mode button
3. Manual mode LED
4. On/off screen light
5. Comfort LED (programming mode)
6. Screen
7. Economy LED (programming mode)
8. Selection of temperatures and other parameters
9. Programming menu LED
10. Programming menu button

3.2 START - FIRST CONNECTION

When the radiator is connected to the mains, press the switch on the position ON:

1. If this is the first time the radiator is connected, “Pr:Hd” will appear flashing on the screen.

2. Press OK button (OK). The room temperature will then be displayed.



3.3 ANTI-FREEZE MODE

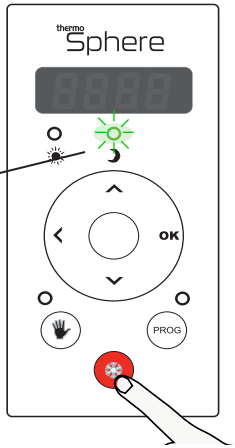
By pressing the button, the radiator changes from “anti-freeze mode” to “heating mode” and vice versa.

The room temperature will be displayed

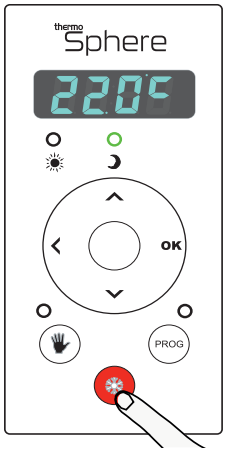
> The economy LED (moon) will flash approximately every 5 seconds to indicate “anti-freeze mode”.

Anti-Freeze Mode

Flashes every 5 seconds



Heating Mode



> Remember that you can switch to “anti-freeze mode” by pressing the button .
>
> Thanks to this **“anti-freeze mode”,** extreme temperatures will be avoided in your home, keeping the room temperature at 7ºC.

3.4 HEATING MODES

In heating mode, the radiator has two modes of operation, PROGRAMMING mode or MANUAL mode.

Choose the mode of operation by pressing MANUAL button.

Programming Mode

Hand LED switched off

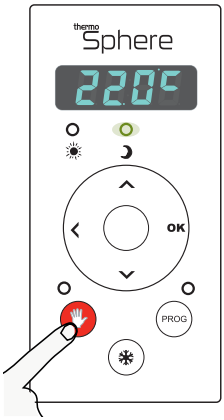
Manual Mode

Hand LED switched on

Programming Mode

In programming mode, the radiator can be in a comfort, economy or anti-freeze cycle.

- Confort Led
- Economy Led
- Economy Led flashing: antifreeze



Manual Mode

Hand LED switched on

The comfort (sun) and economy (moon) LEDs will be switched off.

Remember that you can switch to “anti-freeze mode” by pressing the button.

For an efficient use of your radiator, we recommend using the programming mode. Programme your radiator with the specific times that you require heating in the room.

3.5 MANUAL MODE

In manual mode, the radiator operates as an ambient thermostat.

Once the manual mode has been chosen (hand LED switched on), press the or button to configure the desired temperature.

After a few seconds, you will return to the home screen where the room temperature of the room will be displayed.

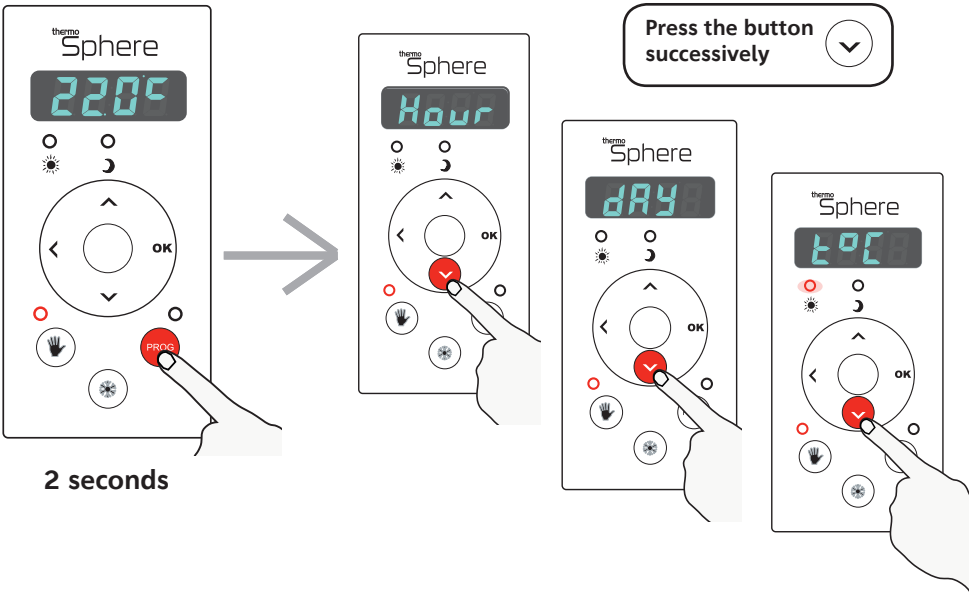
You can view the chosen temperature at any time by pressing the or button.

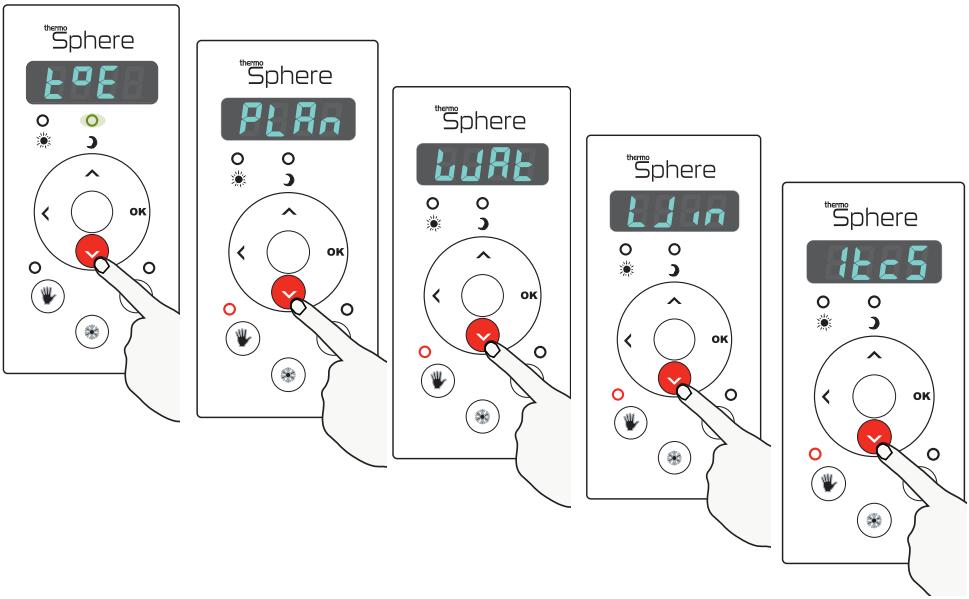
A bright blue dot will flash on the right side of the screen when the radiator is heating.

3.6 SETTING THE THERMOSTAT

To access the set-up menu, **press the** PROG **button for 2 seconds.** This will open up the options menu.

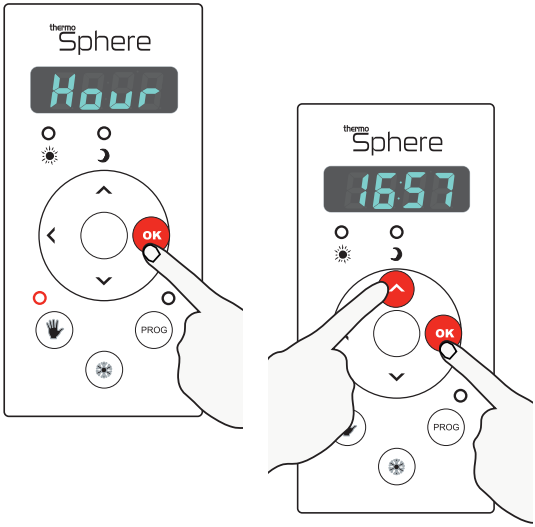
With the button, you can access the sub-menus you want to adjust. The options of the set-up menu are shown in the following diagram:





To exit the set-up menu, press the PROG button.

3.7 SETTING THE CLOCK



In the "Hour" sub-menu, you can set the current hour and minutes.

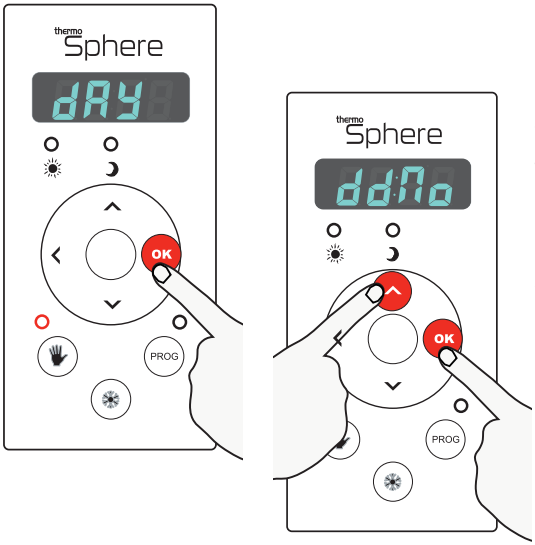
Press OK. The first two digits will flash. Set the current hour by pressing the ^ or v buttons.

Press OK. The minutes will flash. Follow the same procedure by using the arrows to adjust them.

Finish by pressing the OK button. It will take you to the next set-up sub-menu.

To exit from the set-up menu, press PROG.

3.8 SETTING THE DAY OF THE WEEK

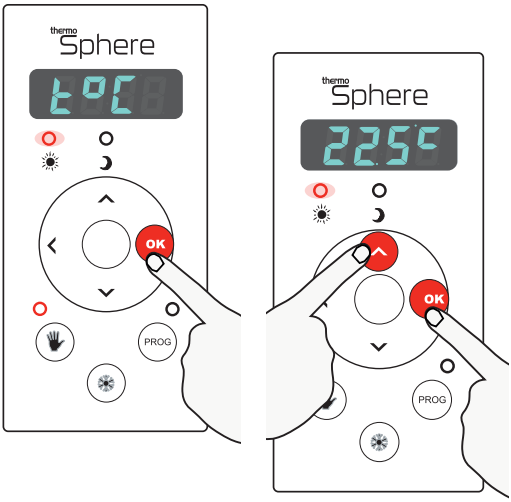


Press OK. The day of the week will flash.

With the ^ or v buttons, set the current day of the week (Mo for Monday, Tu for Tuesday and so on).

Finish by pressing the OK button. It will take you to the next set-up sub-menu.

3.9 SETTING THE COMFORT TEMPERATURE



In this sub-menu you can set the desired comfort temperature for the comfort cycles.

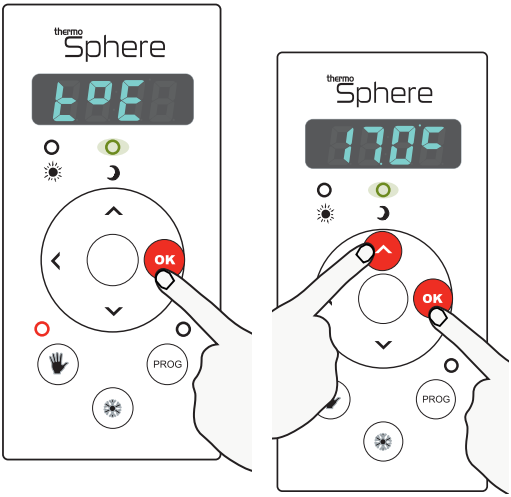
The minimum comfort temperature you can set is 5ºC and the maximum 32ºC. Taking in count that this temperature can not be lower than the economy temperature selected below.

This temperature is adjusted by using the ⌄ or ⌃ buttons.

Finish by pressing the OK button. It will take you to the next set-up sub-menu.

> The recommended comfort temperature is 21ºC.

3.10 SETTING THE ECONOMY TEMPERATURE



In this sub-menu you can set the desired economy temperature for the economy cycles.

The minimum economy temperature you can set is 5ºC and the maximum 32ºC. Taking in count that this temperature can not be higher than the comfort temperature .

Finish by pressing the OK button. It will take you to the next set-up sub-menu.

> The recommended economy temperature is 17ºC.

3.11 TIME SCHEDULES

The radiator has **4 preset programmes schedules,** configured from the factory, and **a bespoke program,** which can be modified by the user.

These four preset programs are suited for the majority of heating situations you may need.

In this sub-menu you can choose one of the 4 time schedules or the bespoke plan

PL01: • Comfort on Monday to Sunday from 10am to 12am. Remaining hours, economy.

PL02: • Comfort on Monday to Friday from 7am to 9am, 12pm to 4pm and 6pm to 12am. Remaining hours, economy.

• Comfort on Saturday and Sunday from 10am to 12am. Remaining hours, economy.

PL03: • Comfort on Monday to Friday from 6am to 9am and 4pm to 12am. Remaining hours, economy.

• Comfort on Saturday and Sunday from 10am to 12am. Remaining hours, economy.

PL04: • Comfort on Monday to Friday from 6am to 9am and 7pm to 12am. Remaining hours, economy.

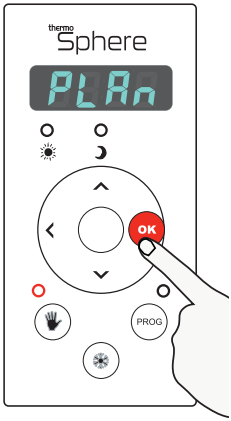
• Comfort on Saturday and Sunday from 9am to 11am, 2pm to 4pm and 8pm to 12am. Remaining hours, economy.

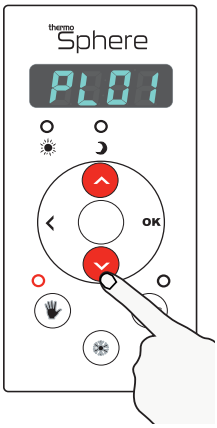
The "PLCF" bespoke program can be modified. By default, it is set with the following schedule:

PLCF: • Comfort on Monday through Friday from 7am to 2pm and 3pm to 7pm. Remaining hours, economy. On Saturday and Sunday, economy.

The comfort and economy cycles will take into account the comfort and economy temperatures predefined in the previous steps (points 3.9 and 3.10).

PL01, PL02, PL03 and PL04 preset programme schedules:



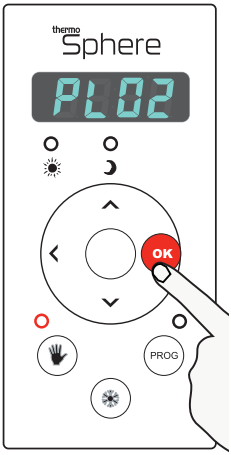


Once the word **"PLAn"** is displayed on the sub-menu, press OK to enter the time schedules into the sub-menu.

The **"PL01"** plan will be displayed on screen.

Then, press the ^ or v buttons to choose the desired programming schedule.

Choose one of the four preset time schedules, for example **"PL02"**.



Next, press the OK button to confirm the chosen time schedule (this will appear on the "ddMo" screen).

If you wish, you can then check the chosen time schedule by successively pressing the OK button.

To validate the chosen plan and complete the setting process, press the PROG button.

A bright blue dot will flash on the right side of the screen when the radiator is heating.

The radiator follows the chosen time schedule in accordance with the comfort and economy temperatures chosen in points 3.9 and 3.10 of this manual.

PL03 Bespoke programme:

PL03 **You only need to programme Monday (dd01).** The programme will be automatically repeated.

ACTION	SCREEN
1 Once the word **"PLAn"** appears in the sub-menu, press **"OK"** to enter. The **"PL01"** plan will appear on screen.	PLAn
2 Then, press the ^ or v buttons to choose the **PL03 bespoke programme.** Press the **"OK"** button to confirm.	PL03
3 **"dd01"** will appear flashing. Press **"OK"** to continue	dd01
4 The screen will indicate "00:00". Using the ^ or v keys, choose the operating cycle, either comfort, economy or anti-freeze, for the first time slot (from midnight to 1am).	0000

Comfort Cycle = Sun LED on

Economy Cycle = Moon LED on

Anti-freeze Cycle = Green LED flashing

5 Press **"OK"** to go to the next time slot (from 1am to 2am) and repeat the above process for each time slot on Monday. The device will be configured every day of the week with the same programming made for Monday.

PL04 configurable schedule:

You only need to programme Monday (dd01) and Saturday (dd02). The programme will be repeated from Monday to Friday and from Saturday to Sunday.

With the **"PL04"** configurable plan, you can create a programme for Monday to Friday,

and another programme for Saturday and Sunday

.

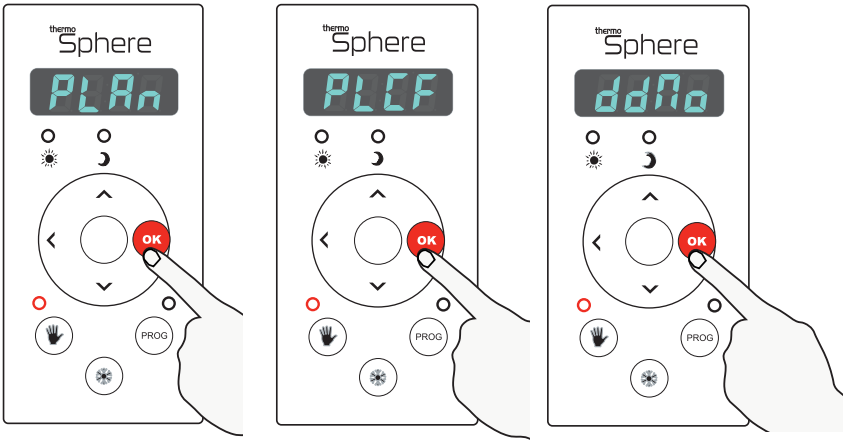
Repeat the steps described in the **"PL03 Bespoke programme"** point to set Mondays (the programming created will be repeated from Monday to Friday).

Once you have finished **step 5, "dd02"** will appear flashing. Configure "dd02" with your desired programming for Saturdays. Once you have configured the schedule for Saturdays, the device will also repeat this programming on Sundays.

Configurable PLCF time schedule:

With the bespoke **"PLCF"** plan you can create a program that suits your needs, day by day and hour by hour.

Choose **"PLAn"** on the sub-menu, and once you have chosen the configurable **"PLCF"** plan, press OK. **"ddMo"** will be displayed. Then, press OK to continue.



3. OPERATION

Then 00:00 will be displayed. With the ^ or v buttons, choose the operating cycle: comfort, economy, or anti-freeze, for the first time period (from 12am (00:00) to 1am (01:00)):

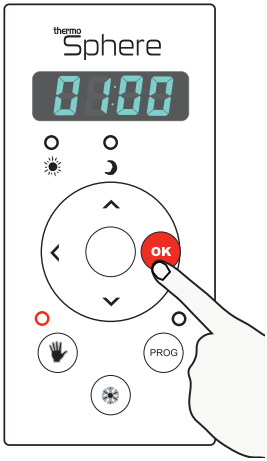
Comfort Cycle = Sun Red LED switched on

Economy Cycle = Moon Green LED switched on

Anti-freeze Cycle = Green LED flashing

The anti-freeze temperature is set at 7ºC. This temperature can not be changed.

Press OK to switch to the next time slot (from 1am to 2am) and repeat the above process to choose the desired operating cycle (comfort, economy or anti-freeze). Repeat the process hour by hour y day by day.



Once you have set the time schedule for the entire week, the radiator will follow this chosen plan. Please make sure that the radiator is on the **PROGRAMMING mode** (hand LED switched off).

A bright blue dot will flash on the right side of the screen when the radiator is heating.

In the **"PLCF"** plan, the radiator follows the time schedule defined by the user, according to their needs and in accordance with the indicated comfort, economy or anti-freeze cycles.

If you wish to change a specific time slot, please select the day of the week and search for that time slot by pressing the OK button. Once you have made the changes, in order to exit the menu please press the PROG button repeatedly until you exit of the sub-menu and the room temperature is displayed again.

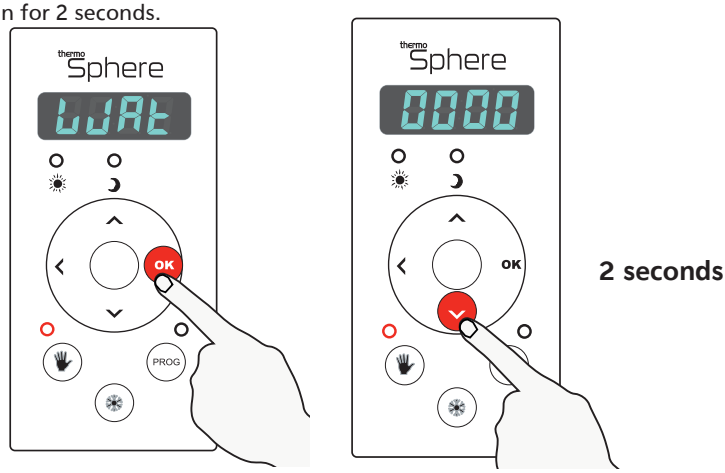
3.12 CONSUMPTION INDICATOR FUNCTION

The radiator incorporates a function that is unique on the market, which enables you to find out its electricity consumption.

Once positioned on the **"WAT"** sub-menu, press (OK) to access this function.

The energy meter will tell you the sum of the accumulated KWh every 24 hours up to the latest restart.

This meter is restarted every 30 calendar days. It can also be restarted at any time by pressing the (∨) button for 2 seconds.



3.13 "OPEN WINDOWS" FUNCTION

This function is activated when there is a sudden drop in temperature in the room.

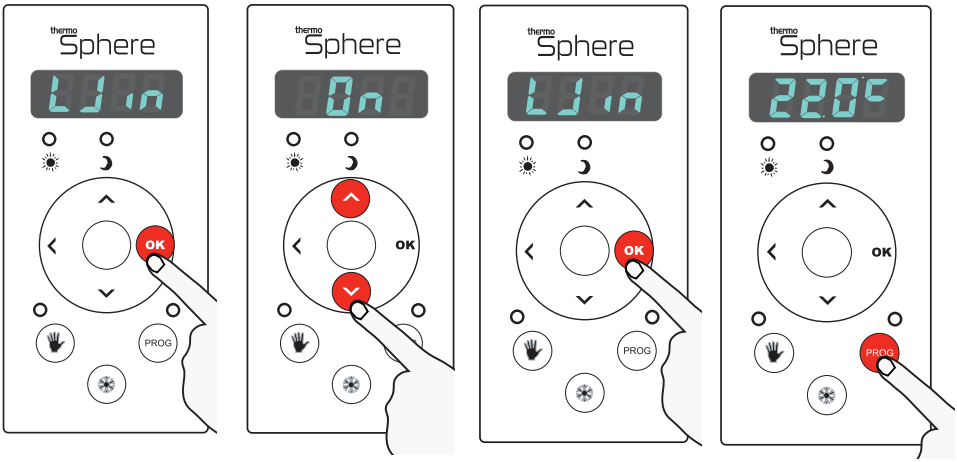
When this function activates, the green "moon" LED will flash and **"Win"** will appear flashing on the screen. The radiator will switch to Antifreeze mode, avoiding an unnecessary energy consumption.

When the window is closed, the radiator will detect a rise in temperature and this function will deactivate. The radiator will switch on again, returning to the state it was in before it was disconnected.

This function can be activated or deactivated by the user. Once positioned in the **"Win"** sub-menu, press OK to access this function.

Next, press the ^ or v buttons to choose "ON" or "OFF" which activates or deactivates this function.

Then press OK to validate. Press PROG to exit from the menu.



Choose "ON" or "OFF"

3.14 INTELLIGENT ITCS FUNCTION

The radiator incorporates an innovative intelligent ITCS temperature control system.

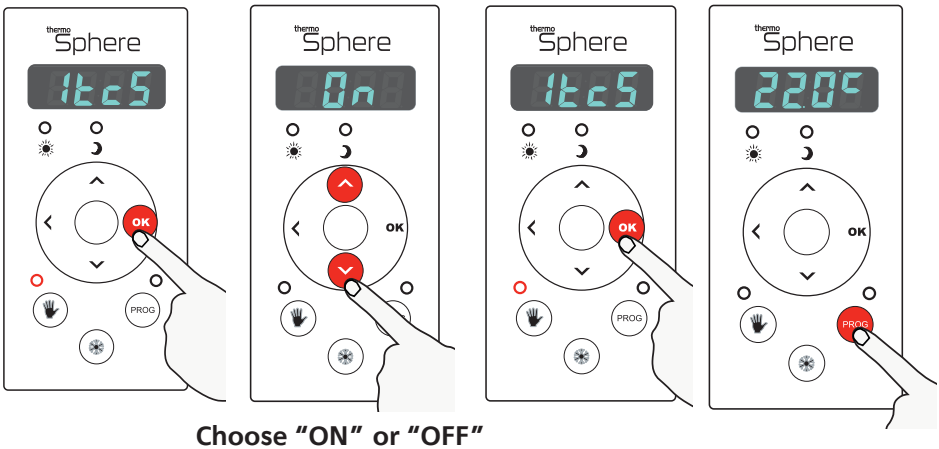
This system activates the start-up of the radiator prior to the programmed time (2 hours maximum), to ensure that the desired temperature is achieved at the indicated time and following the established weekly programme.

This intelligent function is factory set. It can be deactivated by the user.

This function can be activated or deactivated by the user. Once positioned in the **"ItcS"** sub-menu, press OK to access this function.

Next, press the ^ or v buttons to choose "ON" or "OFF" which activates or deactivates this function.

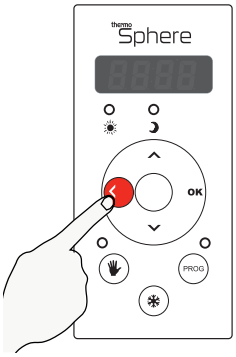
Then press OK to validate. Press PROG to exit from the menu.



Choose "ON" or "OFF"

The C segments will rotate when this ItcS function is activated.

3.15 SWITCH OFF THE DISPLAY



To switch off the screen, press the < button.

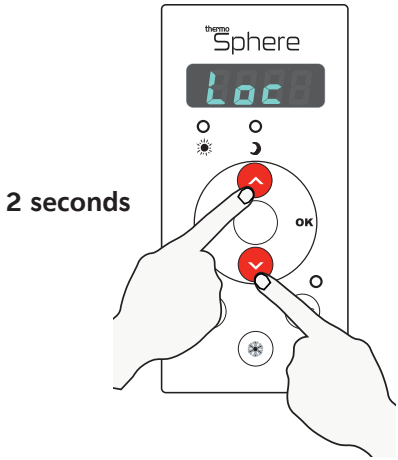
Press the < button again to switch the screen back on.

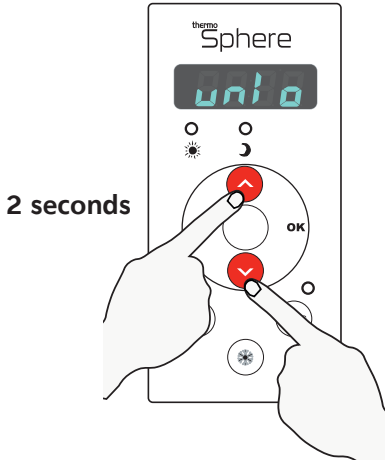
The mode indicator lights will remain turned ON. A bright blue dot will flash on the right side of the screen if the radiator is heating.

3.16 KEYBOARD LOCK

Simultaneously press the ⌃ and ⌄ buttons until **"Loc"** is displayed.

The same operation must be followed to unlock the keyboard. Then **"unlo"** will be displayed.





3.17 2 HOUR BOOST FEATURE

The boost feature applies full power to the unit for 2 hours, regardless of the operation mode it's working on. This feature has priority over any other.

To activate it, press the button for 10 seconds until **"booS"** is displayed.

When this feature is activated, **"booS"** will be displayed.

You can deactivate the Boost feature before the 2 hour period ends by pressing the ✋ or ❄ buttons.

4. MAINTENANCE

3.18 CHANGING THE LANGUAGE

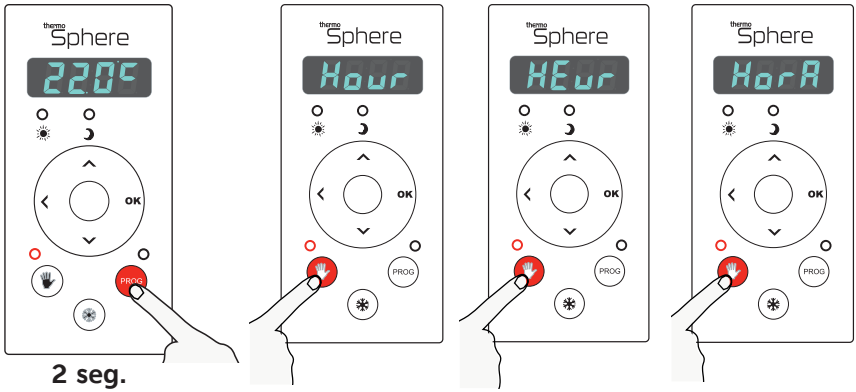
The menu of the radiator can be set into various languages (English, French and Spanish).

Access the set-up menu by pressing the PROG button for 2 seconds.

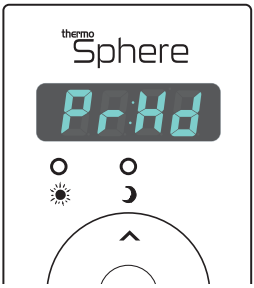
Press the button to change from one language to another.

When you have chosen the desired language, press the OK .

Press the PROG button to exit from the set-up menu.



3.19 DISCONNECTION FROM THE MAINS/POWER CUT



If there is a disconnection from the mains or a power cut that lasts more than 24 hours, you must re-set the day and time.

See point 3.2 regarding "START-UP - FIRST CONNECTION" manual. Set the day and time again by following points 3.7 and 3.8 on this manual.

If the electricity disconnection or power cut supply lasts less than 24 hours, all parameters will be maintained. It will even remember the last operating modes and chosen comfort and economy temperatures.

4. MAINTENANCE

Your heater does not need any kind of special maintenance.

Just remove any dust with a soft dry cloth.

We recommend to start the winter season, by cleaning off the dust that has built up on the heater surface.

NEVER USE SOLVENTS OR ABRASIVE PRODUCTS.

5. GUARANTEE

Thermogroup Ltd guarantees that the devices comply with the contracted specifications.

This warranty only covers the model of heater showed on the valid invoice.

Such rectifications will be guaranteed against any manufacturing and operating defect for the normal and domestic use of this product, for a period of 24 months as from the purchase date shown on the invoice.

Thermogroup Ltd guarantees against material, design or manufacturing faults at the moment of its original acquisition for 2 years. The electronic component and paintwork / finish for 3 years and 10 years for the aluminum body (exclude accidental damage, transport, and misuse).

This warranty only covers the device whose model appears on the purchase invoice.

This warranty DOES NOT COVER incorrect installation, maintenance, cleaning or conserving the device, and neither does it cover failures and faults due to force majeure, chemical agents or atmospheric phenomena, incorrect use of the device, the purchaser's faulty electrical installations, transporting the device or problems caused by the device being handled by persons not authorised by Thermogroup Ltd.

This warranty must not be modified, altered or extended, and the Manufacturer does not authorise anybody to act on his behalf to modify, alter or extend it.

This warranty applies only to the Product.

To repair the device, the consumer must dial the Customer Services Team on 0800 019 5899 or send an email to hello@thermosphere.com and ask for the information needed about the procedure to follow:

For a replacement, cancellation or price reduction, when in order, the consumer must go the establishment where the device was purchased. This warranty does not affect the consumers' rights as established in the provisions contained In Ley 23/2003, the Consumer Goods Sales Guarantee Act.

Customer Service Telephone:
0800 019 5899

E-mail: hello@thermosphere.com

Thermogroup Ltd
T/A ThermoSphere
Bridge House
Pattenden Lane
Marden
TN12 9QJ

Made in Spain

Thermogroup Ltd reserves the right to modify without previous warning

6. ECODESIGN

Models	TSR-0600	TSR-0900	TSR-1200	TSR-1500	TSR-1800
Heat output					
Nominal heat output (kW)	0.6	0.9	1.2	1.5	1.8
Maximum continuous heat output (kW)	0.6	0.9	1.2	1.5	1.8
Auxiliary electricity consumption					
At nominal heat output (kW)	0.6	0.9	1.2	1.5	1.8
At minimum heat output (kW)	0.6	0.9	1.2	1.5	1.8
In standby mode (kW)	N.A.	N.A.	N.A.	N.A.	N.A.
Type of heat room temperature control	Electronic room temperature control plus week timer				
Other control options	• Room temperature control, with open window detection • With adaptive start control				
Authorised representative	**Thermogroup Ltd**				
Address	**Bridge House** **Pattenden Lane** **Marden** **TN12 9QJ**				

	W	N°
TSR-0600	600	4
TSR-0900	900	6
TSR-1200	1200	8
TSR-1500	1500	10
TSR-1800	1800	12

230 V 50 Hz

CLASS I - IP 24

Where you see this symbol on any of our electrical products or packaging, it indicates that the relevant electrical product should not be disposed of as general household waste in Europe. To ensure the correct waste treatment of the product, please dispose of it in accordance with any applicable local laws or requirements for disposal of electrical equipment. In so doing, you will help to conserve natural resources and improve standards of environmental protection in treatment and disposal of electrical waste.

7. NOTES

TSR

thermo Sphere