Installation manual and instructions for use
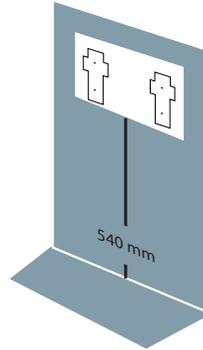
Auto

21.0 °C

1 2 3 4 5 6 7

10:30

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

FLUID - CERAMIC

STEP 1

150mm

-150mm-   250mm

150mm
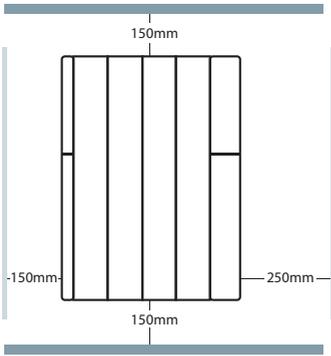
Minimum distances

STEP 2

540 mm

Floor measurement to template 540 mm

STEP 3

1

2
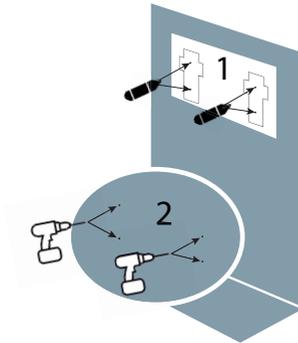
Mark, remove template and drill
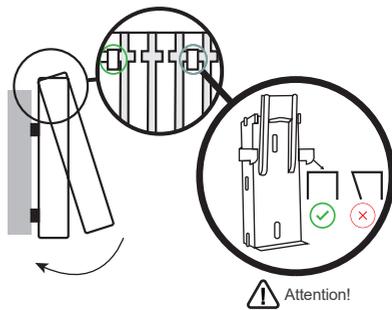
STEP 4

Screw

STEP 5

ELEMENT
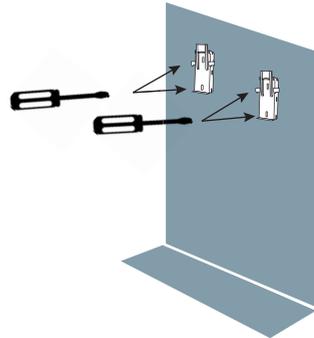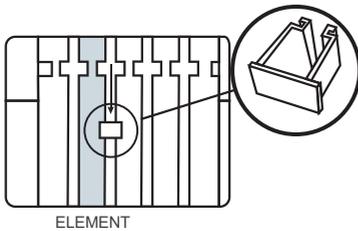
Place the spacer on the back of the radiator.

STEP 6

⚠ Attention!

Place the radiator tilting it slightly

<u>PRESENTATION</u>

Before proceeding with the installation of the product, you must read very carefully all the instructions and recommendations detailed in this manual, since the manufacturer will not be responsible for any failure or damage caused by non-compliance. Once installed, keep this manual in a safe place so that it can be consulted at any time and in case of doubt.

VERY IMPORTANT!
- **Read the installation manual before mounting the product.**
- **Read the manual carefully to operate the product.**
- **Observe the warnings carefully.**
- **Install the product in a place where air can circulate.**
- **The unit must be installed by qualified personnel.**

After unpacking the unit, the packaging should be removed in a responsible manner, as all parts of the unit are intended for recycling. If, after unpacking, you detect any apparent damage to the unit, you should consult your supplier before proceeding with the installation and electrical connection within 24 hours.
Assembly and installation must be carried out according to the instructions given in this manual.

<u>RECYCLING</u>

Warnings for the correct disposal of the product according to the European Directive 2012/19/EU. At the end of its useful life, the product must not be disposed of with municipal waste. It can be handed over to specific separate collection centers set up by the municipalities or to distributors that provide this service. Disposing of an appliance separately avoids possible negative consequences for the environment and health resulting from improper disposal and allows the materials of which it is composed to be recycled, thus obtaining significant savings in energy and resources. To underline the obligation to collaborate with a selective collection, the product is marked with a warning not to use traditional containers for its disposal. For further information, please contact the local authority or the store where it was purchased for disposal.

IMPORTANT SAFETY NOTES

The positioning of the heating appliance must be chosen correctly and must be carried out according to the rules and in compliance with the standard.

The product should be placed away from any flammable objects and children should not be left unattended near the radiator. This appliance can be used by children aged 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.

Children from 3 years of age and under 8 years of age should not plug in, regulate and clean or perform maintenance operations.

Children under 3 years of age should be kept out of reach of the appliance unless continuously supervised.

Children from 3 years of age and under 8 years of age should only switch the appliance on/off when it has been placed and installed in its normal intended operating position and they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.

Children should be supervised to ensure that they do not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

Caution: some parts of this product may become very hot and cause burns. Particular care should be taken when children and vulnerable persons are present.

The product should not be covered by clothing, container or any other object under no circumstances, neither placed under a cabinet or any other obstacle that prevents the circulation of hot air.

WARNING: To avoid overheating, DO NOT COVER the heating appliance.

The heating appliance should not be placed immediately below or in front of an outlet base.

Avoid the use of extension cords as these may cause overheating and a risk of fire.

If the appliance is a dry type, it may be connected only to a supply with a system impedance of not more than 0.24 Ω. If necessary, consult your supply authority for information on system impedance.

The product must not be installed in locations where there is a risk of splashing water, such as bathtubs, sinks, etc. The product must be installed in such a way that the switches, thermostat and socket cannot be touched directly or indirectly by a person in the bathtub or shower (respect the prohibition distances according to REBT).

The connection cables of the heater itself must not come into contact with the surface of the appliance.

If the power supply cable is damaged, it may only be replaced by the Technical Assistance Service in order to avoid risks.

Always observe the safety precautions when installing the radiator on the wall.

The electrical installation must have a fused switch or circuit breaker. It is also advisable to have a differential protection against earth faults. The voltage and frequency values of the power supply must be equal to those indicated on the nameplate.

It is possible that the radiator may cause slight noises at the beginning of its operation; this is normal due to expansion and contraction. As the days go by, this noise disappears.

<u>ELECTRICAL CONNECTION</u>

- If the radiator that you have purchased does not have a plug incorporated in the power cable, you must follow the following instructions concerning the electrical installation of the radiator and the connection must be carried out by a qualified installer.
- In the electrical connection of the appliance, means of disconnection to the fixed installation must be incorporated in accordance with the installation regulations in force in the country where it is to be installed.
- For safety reasons, before making the connection, check that there is no voltage in the mains. Before connecting the appliance to the mains, make sure that the supply voltage is as indicated on the nameplate 230V.
- The device must be connected to the protective conductor of the fixed installation. Any incident resulting from non-compliance with these instructions will invalidate the warranty.
- The connection must be made in strict compliance with the wiring diagram, paying particular attention to the colors of the wires.

WARRANTY

The company offers a technical guarantee according to the legislation in force in each country. For this warranty to be valid, the original invoice, delivery note or purchase receipt must be presented.
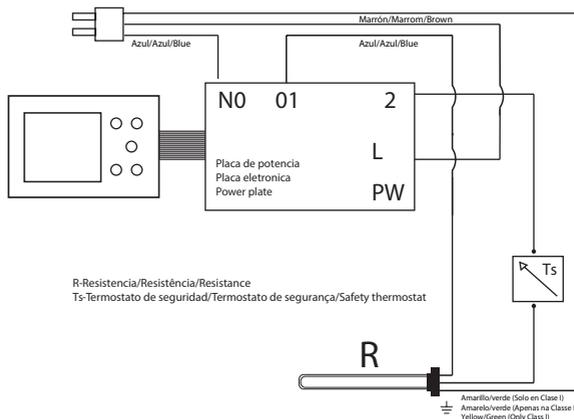
Prerequisites:

• The warranty only covers manufacturing defects or any problems caused by such defects.

• Any problems resulting from insufficient installation or power (not enough power to heat the room, incorrect installation, etc.) are not covered by this warranty.

• This radiator is for domestic use, installation in any other environment is not guaranteed. The manufacturer reserves the right to decide whether to repair any defective part or replace the entire unit.

• All costs resulting from damage caused by improper use, transport, improper power supply, are not covered by this warranty.

• If the unit is not installed or positioned as indicated in this manual, the responsible company will not be liable for any damage caused by misuse.

• Any improper handling will invalidate the warranty.

• In the latter case of recourse to legislation, both parties will be under the jurisdiction of the courts of the manufacturer's province.

PRODUCT INFORMATION

Technical characteristics		
Measured temperature accuracy		0.1ºC
Environment:	Operating temperature Transport and storage temperature	0ºC - 40ºC -10ºC to 50ºC
Adjustment of the temperature range:	Comfort Night Timer Vacation (Anti-freeze)	5ºC to 30ºC by steps of 0.5ºC 5ºC to 19ºC by steps of 0.5ºC 5ºC to 30ºC by steps of 0.5ºC 5ºC to 10ºC by steps of 0.5ºC
Control characteristics		PID

WIRING DIAGRAM

R-Resistencia/Resistência/Resistance
Ts-Termostato de seguridad/Termostato de segurança/Safety thermostat

EEPROM memory

In case of power failure:
- User programs and settings (if saved correctly), will remain "indefinitely".
- Maintenance of time and date is guaranteed for 8-12 hours as long as the product has been running for at least 24 hours so that the battery has been charged.

HOW TO USE THE ELECTRIC RADIATOR

Setting your radiator on a schedule will allow you to assign temperatures for different times each day of the week.

Understanding the full programming potential of your radiator will help to reduce energy consumption.

Display:

1. AUTO mode (framed if active)
2. Comfort Mode (framed if active)
3. Anti-Frost/Holiday mode (framed if active)
4. Timer Mode (framed if active)
5. Pilot Wire Order
6. Key lock indicator
7. Temperature
8. User parameter menu
9. Time/text/display
10. Programme of the current day (current time bar flashing)
11. AM/PM
12. Temperature unit
13. Days of the week (current day is framed)
14. Temperature unit
15. Time override function activated
16. Measurement indicator (active if the current measurement is displayed)
17. Heating indicator
18. Programme mode (framed if active)
19. Power off indicator
20. Night Mode (framed if active)
21. Mode button
22. On/ Off button
23. OK button
24. Control buttons (+) and (-)
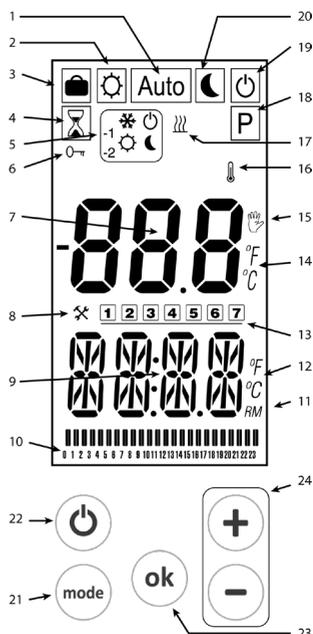
FIRST INSTALLATION

Connect the radiator to the electrical network. The device's time may be displayed intermittently the first time. Before using your radiator it is necessary to make some adjustments. The transmitter has an internal battery so the first time it is used it must be charged for a minimum of 24 hours so that the programming settings are not lost.

Date and time setting

To modify the date and time we have to access the user menu. To do this, scroll with the (MODE) button to the setting icon ✕ in the selection menu. Next, "Time" will be displayed on the screen, press the (OK) button to confirm and go to the next step. To modify the values, press the (+) or (-) buttons and confirm with (OK).

HORA Y DÍA

Hou
00:00

Min
00:00

DAY
1 2 3 4 5 6 7

Image 1   Image 2   Image 3

FECHA Y AÑO

DAY
01.00

Mon
01.01

YEA
2023

Save

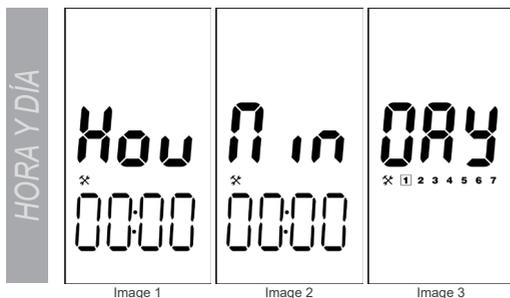Image 4   Image 5   Image 6   Image 7

Image 1: Setting hours. Use the (+) and (-) buttons to select the time. Press the (OK) button to confirm and move to the next screen.

Image 2: Setting the minutes. Repeat the above process.

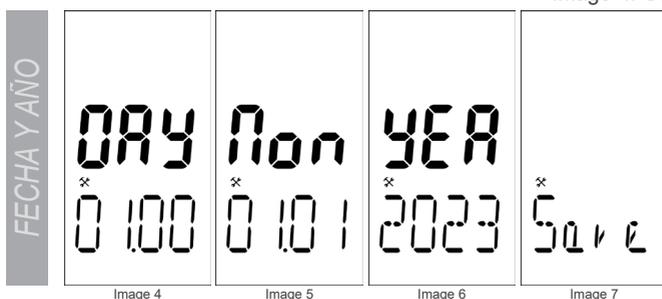Image 3: Setting the day of the week. Repeat the above process.

Image 4: Setting of the day. Repeat the above process.

Image 5: Setting of the month. Repeat the above process.

Image 6: Adjustment of the year. Repeat the above process.

Image 7: Save settings. Repeat the above process.

Later, you can access the date and time setting in the user menu (page 12).
After selecting the date and time, the device will begin to operate in Comfort Mode with a set temperature of 21ºC.

WORK MODES

Your radiator has several operating modes (Comfort, Night, Off, Timer, Auto and Vacation).

•   Press the (MODE) button to select one of the modes. As you go through each one, the icon for each mode will flash. To select it, press the (OK) button.

Comfort Mode ☼

In this mode, the radiator will operate according to a set temperature established by the user. You can set this temperature by pressing the (+) or (-) buttons and confirming with the (OK) button.

You can switch between displaying the room temperature or the set temperature by pressing the (OK) button. The room temperature is displayed when this icon appears 🌡 .

The temperature selected in this mode will be the Comfort temperature for all preset and user programs in Auto Mode.

☼ 22.0℃
1 2 3 4 5 6 7
10:30

☼ 21.0℃
1 2 3 4 5 6 7
10:30
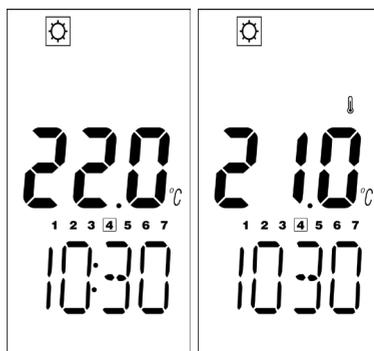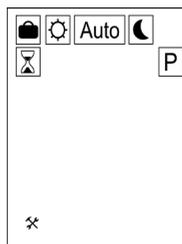
Tª de consigna   Tª ambiente

Night Mode 🌙

In this mode, the radiator will operate according to a set temperature lower than that of the Comfort Mode established by the user. You can set this temperature by pressing the (+) or (-) buttons and confirming with the (OK) button.

As in Comfort Mode, you can also switch between the display of the room temperature or the set temperature by pressing the (OK) button.

The temperature selected in this mode will be the Night temperature for all preset and user programs in Auto Mode.

Off mode ⏻

When you press the (On/Off) button, your product turns off (The device emits 1 beep). In this mode, the display backlight turns off, the power off indicator is on, and there is no frost protection. Even so, the microcontroller will continue to work. To turn the device on again, press the (On/Off) button (The device emits 2 beeps).

Timer Mode ⧖

Timer Mode allows you to set a specific setpoint temperature for a period of time. The screen shows the image on the left.

With the (OK) button you can select between adjusting the temperature or setting the Timer Mode time. To edit either value use the (+) and (-) buttons.

The time range is set between 15 minutes and 44 days. After 24 hours, the setting will change to day numbers. The screen shows the images on the right. Press the (OK) button again to save the temperature and start Timer Mode.

The remaining time is displayed and the timer indicator flashes until the end of the period. If you want to stop or modify the function before it ends, set the time period to zero (No). Once finished, the device returns to the previous mode.

Auto Mode Auto

In this mode, the device will follow the selected program (preset or user-defined) according to the time. The display will show the room temperature, current mode (Comfort or Night) and time.

A bar graph at the bottom will indicate the program layout (the on bar indicates a Comfort temperature period and the off bar indicates a Night temperature period) and the flashing bar indicates the current time.
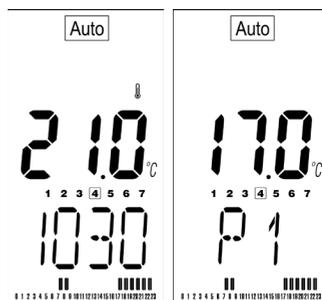
Press the (OK) button to switch between the display of the room temperature and the current set temperature.

You can temporarily cancel the program by pressing the (+) and (-) buttons. Confirm by pressing the (OK) button. When a manual override is performed, the symbol is displayed 🖐.

The cancellation will end in the next time period. To permanently cancel the program, select Comfort Mode or Night Mode.

Vacation Mode (Anti-Frost) 💼

Frost protection is provided and a minimum temperature of 5.0ºC will be maintained. This temperature can be changed by adjusting the value in the installer menu.

Keypad lock function ⧜

Use this feature to prevent configuration changes:

*   To activate the lock function, press the (+) and (-) buttons simultaneously for a few seconds.
*   The icon ⧜ will be displayed on the screen.
*   Repeat the same procedure to unlock the keypad.
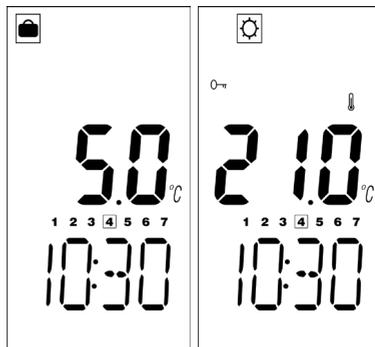

Holiday mode   Keypad lock

SELECTING OR VIEWING A PRESET PROGRAM P1 TO P9

There are 9 preset programs (P1 - P9). To select a preset program, press the (MODE) button and select the icon P . Use the (+) or (-) buttons to choose between P1 to P9 or U1 to U4 (user-defined programs).

*   Use the (OK) button to confirm and return to Auto Mode or press the (OK) button for a few seconds to view the selected program. In display mode, use the (+) or (-) buttons to move through the hours, use the (MODE) button to go to the previous day or the (OK) button to go to the next day. After the seventh day, pressing the (OK) button will return to the program selection menu.
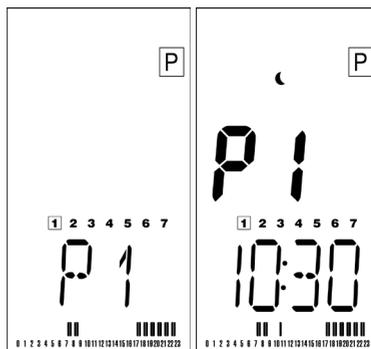
Program P1   Display P1

"P" (preset) programs are set at the factory and cannot be modified.

You can see the default times in each program, but you can only see those that are set for Monday, unless you press (OK), then you can see the current day's program settings.

Below we detail the information of each of the pre-established programs for every day of the week. The configuration in Comfort Mode will be displayed and in the remaining hours the device will operate in Night Mode:

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
P1	From 07h to 09h From 17h to 23h	From 07h to 09h From 17h to 23h	From 07h to 09h From 17h to 23h	From 07h to 09h From 17h to 23h	From 07h to 09h From 17h to 23h	From 08h to 23h	From 08h to 23h
P2	From 07h to 09h From 12h to 14h From 18h to 23h	From 07h to 09h From 12h to 14h From 18h to 23h	From 07h to 09h From 12h to 14h From 18h to 23h	From 07h to 09h From 12h to 14h From 18h to 23h	From 07h to 09h From 12h to 14h From 18h to 23h	From 08h to 23h	From 08h to 23h
P3	From 06h to 23h	From 06h to 23h	From 06h to 23h	From 06h to 23h	From 06h to 23h	From 07h to 24h	From 00h to 01h From 07h to 23h
P4	From 15h to 23h	From 15h to 23h	From 15h to 23h	From 15h to 23h	From 15h to 23h	From 07h to 24h	From 00h to 01h From 07h to 23h
P5	From 06h to 08h From 21h to 23h	From 06h to 08h From 21h to 23h	From 06h to 08h From 21h to 23h	From 06h to 08h From 21h to 23h	From 06h to 08h From 21h to 23h	From 07h to 09h From 18h to 24h	From 07h to 09h From 18h to 23h
P6	From 06h to 08h From 14h to 21h	From 06h to 08h From 14h to 21h	From 06h to 08h From 14h to 21h	From 06h to 08h From 14h to 21h	From 06h to 08h From 14h to 21h	From 07h to 21h	From 07h to 21h
P7	From 07h to 19h	From 07h to 19h	From 07h to 19h	From 07h to 19h	From 07h to 19h	-	-
P8	From 08h to 19h	From 08h to 19h	From 08h to 19h	From 08h to 19h	From 08h to 19h	From 08h to 18h	-
P9	From 00h to 07h	-	-	-	From 13h to 24h	From 00h to 24h	From 00h to 24h

The programming does not allow alternating between on and off status, what it allows is to alternate between Comfort Mode and Night Mode.

To make the device generate on and "off" cycles, we will configure it as follows:

In Comfort Mode we will choose our desired temperature and in Night Mode we will choose the minimum, 5.0ºC. In this way, with the radiator in Auto Mode, the hours programmed with Night Mode will only activate the radiator when the temperature drops below 5.0ºC (something unusual).

USER DEFINED PROGRAMS U1 TO U4

To select a user-defined program, press the (MODE) button and select the icon P .

- Use the (+) or (-) buttons and select a program between U1 and U4. Confirm with the (OK) button.

If the selected program is already created, the device will return to Auto Mode and run the program.

If the program is not created, a selection menu will be displayed.

- To edit an already created program, press the (OK) button for a few seconds.

"View" option   "Edit" option

- Use the (+) or (-) buttons to choose between "Edit" (or Create) and "View" and confirm with the (OK) button.

Modify or create user-defined programs

If you have selected "Edit" in a user-defined program, the screen will show the image on the right.
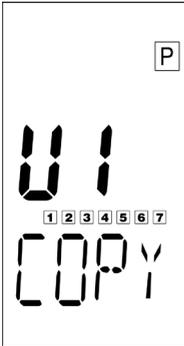
- Toggle the mode (between Comfort and Night) of the current half hour by pressing the (MODE) button.

The Comfort and Night temperatures will be those that were previously selected.

- With the (+) button, the time will increase and the mode will be applied. At any time, press the (MODE) button to change the Mode.

Edit program U1

With the (-) button, the time will decrease and the mode will be applied.

When the first day is completed, the "Copy" menu will be displayed (Image on the Left).

You can select the number of days to copy with the (+) or (-) buttons. Press the (OK) button to confirm.

If you copy every day or when the last day is completed, the machine will enter Auto Mode with this program.

If you have one or more days left, you should schedule them like the first day.

USER MENU

To access the user menu, select ✕ in the selection menu.

In this menu, you can choose between setting the time (as well as a first start) or viewing the consumption (depending on the radiator power).
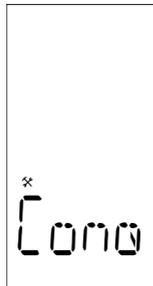
In the consumption menu, you can view the power consumption of the device for the current day, the last 7 days and the last 30 days by pressing the (+) or (-) buttons. Power is displayed in kWh.
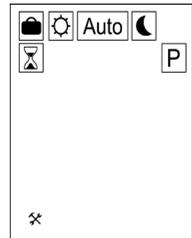
CONSUMPTION

"Time"	"Cons"	Current day consumption	Consumption last 7 days	Consumption last 30 days

INSTALLER MENU

To access this menu, press the (OK) button for approximately 5 seconds. To navigate through the menu press the (MODE) button.

The installer menu can be used to set a number of user preferences, such as 12 or 24 hour clock display, temperature readings in degrees ºC or degrees ºF, and to adjust various unit operating settings.

00 PROG: WITH OR WITHOUT PROGRAMMING

- Yes (Default): Allows daily/weekly programming of the radiator.

- No: The user can only switch between Comfort and Night modes without programming.

01 DEG: TEMPERATURE MEASUREMENT UNIT

- ºC (Degrees Centigrade)(Default value).

- ºF (Degrees Fahrenheit).

02 AM/PM: TIME SYSTEM

- 24H: (Default value) 24 hours (24:00h).

- 12H: 12 hours (12:00 AM/PM).

03 DST: DAYLIGHT SUMMER TIME

- Yes: (Default): Automatic time change between summer and winter is automatically activated with the date.

- No: There is no automatic summer/winter time change.

04 AOFF: CALIBRATION OF THE TEMPERATURE PROBE

This adjustment, if necessary, must be made after a normal day of operation of the thermal emitter at constant temperature, following the following steps:

- Place a thermometer (calibrated) in the center of the room or room, placing it at a height of approximately 1.5m. After 1 hour, check the temperature on your thermometer.

- Once the previous step has been completed you can access this menu parameter. When you enter it, the temperature detected by your radiator is displayed. If there is any difference between the temperature of the room and what the emitter actually detects, it will be enough to enter the actual temperature measured by your thermometer here.

- Use the (-) or (+) buttons to set the actual room temperature value. Then press the (OK) button to confirm.

- If any modification has been made to this parameter, pressing the (OK) button will display the correction value.

- If it is necessary to delete a calibration already performed, press the (+) or (-) buttons to increase or decrease the temperature value and set it to 0.

05 AnFr: VACATION MODE / ANTI-FROST

Press the (OK) button and then the (+) or (-) buttons if you want to increase the temperature. (Adjustable from 0.5ºC to 10.0ºC, factory default is 5.0ºC).

06 ITCS: INTELLIGENT TEMPERATURE CONTROL SYSTEM

- No (Default): The device activates according to the programmed time.

- Yes: The radiator incorporates the innovative ITCS intelligent temperature system.

This system activates the start-up of the radiator before the programmed time (2 hours maximum), to ensure that the desired temperature is reached at the indicated time and following the established weekly program. This control system works as follows: When the radiator is connected for the first time, the processor measures the time it took to reach the desired temperature. From this moment, depending on the ambient temperature and the set temperature, the transmitter can know the time at which it must be connected to reach the temperature at the programmed time.

07 WIND: OPEN WINDOWS FUNCTION

- No (Default): The device does not detect that a window has been opened.

- Yes: The open window detection function is activated.

This function stops the radiator automatically when a sudden drop in temperature of approximately 3ºC is detected (the text "wind" will appear on the screen).

If any key is pressed the radiator will work again.

08. POW: RADIATOR POWER ADJUSTMENT

In this menu, the radiator information is displayed.

- Type: Fluid (F) or Ceramic (C).
- Power: 05=500W, 06=600W, 07=750W, 09=900W, 10=1000W, 12=1200W, 1 2=1250W 15=1500W, 18=1800W, 20=2000W.

This information is necessary for the radiator to calculate consumption correctly. This information is also seen when you turn on the product. Within this parameter, if necessary, we can modify this information. To do this, keep the (MODE) button pressed for 5s. Press (+) or (-) if we want to modify the power or (MODE) if we want to modify the technology (CEr = Ceramic - FLu = Fluid). Press the (OK) button to confirm. The device will reboot.

09 CHIL: SAFETY FOR CHILDREN

By adjusting this parameter you can modify the electrical power of the radiator from 100% (default value), 75%, 50% and 25%. This reduces the surface temperature of the radiator and therefore increases safety in the presence of children.

10 Clr: RESET TO FACTORY SETTINGS

Press the (OK) button for 10 seconds, if you want to restart the radiator and return to the factory default settings of the transmitter. Programming, user-set parameters, and set temperatures will be lost. The information configured in parameter 08 (POW) will not be lost. Make sure you have all the necessary information before performing this Reset.

11 INTERNAL INFORMATION

The software version appears on the screen, this parameter can be useful to the manufacturer in case of error.

12 END: EXIT INSTALLER MENU

Press the (OK) button in this parameter to exit the setup menu and return to normal operating mode.

Menú Nº	Display	Description	Default	Option
00	PROG	Choose between using only Comfort Mode and Night Mode or all functions	Yes	Yes / No
01	DEG	Temperature display	ºC	ºC / ºF
02	AmPm	Time system	24H	12H / 24H
03	Dst	Automated clock change for daylight saving time	Yes	Yes / No
04	AOFF	Calibration of the temperature probe	No	Show temperature
05	AnFr	Antifreeze temperature setting	5ºC	From 5ºC to 10ºC by 0.5ºC From 41ºF to 50ºF by 0.5ºF
06	Itcs	Internal thermal control system	No	Yes / No
07	Wind	Detection of open windows	No	Yes / No
08	Pow	Equipment power		Fluid (500/600/750/900/1000/1200/ 1250/1500/1800/2000W) Ceramic (500/750/1000/ 1500/1800/2000W)
09	Chil	Power level	100%	25% / 50% / 75% / 100%
10	Clr	Restore default settings		Press (OK) 5s
11		Software version		-
12	End	Return to main screen		Press (OK)

FREQUENTLY ASKED QUESTIONS	
My radiator is not working	• Check if the radiator is connected to the mains. • In case the radiator has an on/off switch (located on the back or bottom of the product) check that it is switched on. • Check if the socket is live by connecting another electrical device to it.
My radiator shows an 'Err' error message flashing on the display.	• The probe may be disconnected. Contact your service representative.
The product and/or packaging has arrived damaged	• Contact the seller within 24 hours of receipt of the radiator and take photographs of the carton, the inside of the carton, the carrier's label, the radiator, any damage, and the serial number of the radiator.
Is it possible to copy the schedule on interleaved days?	• No. The schedule only allows copying continuous days.

Element	Unit
Power control type	
Electric interior temperature control and weekly timer	Sí / Sim
Other control options	
Indoor temperature control with open window detection	Sí / Sim
With adaptive launch control	Sí / Sim
With operating time limitation	Sí / Sim
Contact information: See back cover	

Data			Value							
Element	Simbol	Unit	500	750	1000	1200	1250	1500	1800	2000
Heating power										
Nominal heating power	P_{nom}	kW	0,50	0,75	1,00	1,20	1,25	1,50	1,80	2,00
Minimum heating power (indicative)	P_{min}	kW	0	0	0	0	0	0	0	0
Maximum continuous heating output	$P_{max,c}$	kW	0,50	0,75	1,00	1,20	1,25	1,50	1,80	2,00
Auxiliary electricity consumption										
At nominal heating power	el_{max}	kW	0,50	0,75	1,00	1,20	1,25	1,50	1,80	2,00
At minimum heating power	el_{min}	kW	0	0	0	0	0	0	0	0
In standby mode	el_{SB}	kW	0,0012	0,0012	0,0012	0,0012	0,0012	0,0012	0,0012	0,0012