

Wireless digital chronothermostat

PLK2676P1

USER AND INSTALLATION MANUAL

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Description

The NEVE PRO RF is a wireless digital on/off chronothermostat composed of two units, a receiver powered by 220V current and a transmitter (chronothermostat) powered by batteries or via a microUSB cable. With a clean contact in exchange normally open or closed, it is therefore possible to manage and program the interventions of boilers, zone valves, heat pumps, air conditioners or other types of compatible systems, in order to guarantee the most comfortable temperature inside an environment and optimize energy consumption. Both the receiver and the transmitter are designed to be mounted on the wall or on the cover of a 503 box, communicating with each other remotely via radio frequencies. The wireless system allows, for example, to transport the mobile unit to the environment where the temperature detection is most consistent with that of the rest of the house. Through the "PrOG OFF" mode, the NEVE PRO RF can also be used as a simple on/off room thermostat, therefore without the need to set a program. Although simple to connect, it is always recommended to have the device installed by a qualified technician.

NOTE: Read the user manual carefully before installation. Strictly follow the instructions and precautions described regarding the installation and use of the product.

Technical specifications of the transmitter (chronothermostat)

- Three modes for weekly program settings:
- 5+2 Two groups of days with a single program (MON-FRI and SAT-SUN).
- 7 days A single group of days with a unique program (MON-SUN).
 - 24 Hours Ability to program each day of the week separately.
- Selectable thermostat/programming modes.
- Temperature measurement range: 0°C ~ 40°C.
- Set temperature range: 5°C ~ 35°C with 0.1°C increments.
- Temperature measurement accuracy: ± 1°C (at 20°C).
- Power supply: 2x AA alkaline batteries (1.5V).
- Switchable current: 6A (inductive load 2A), 230Vac.
- Nominal load: 6 (2)A, 230Vac.
- Low battery indicator: Flashing.
- Standby current: 40uA, illumination current ≤ 10 mA.
- Buttons: touch (soft touch);

- Backlight color: Light blue.
- Transmitter dimensions (chronothermostat): 12.5 × 8 × 2.5 cm.
- Table base dimensions: 10 x 7 x 5.5 cm.

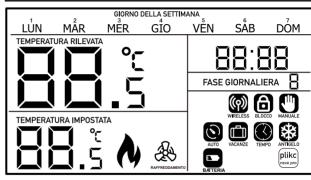
Receiver Technical Specifications

- Receiver power supply: 230Vac 50Hz;
- Working frequency: 868.35 Mhz;
- Distance: approximately 100 m in open field;
- Consumption: 6W Maximum load 6(2)A, 230V;
- Dimensions: 13 x 8.8 x 3.3 cm:

Precautions on using batteries in the transmitter (chronothermostat)

- Use only high-quality batteries of the specified size and voltage, i.e. 2 x 1.5V alkaline AA batteries.
- Make sure you insert the batteries with the correct polarity as indicated in the compartment;
- Connecting the battery with incorrect polarity may damage the thermostat;
- Do not install two different types of batteries, such as alkaline and carbon-zinc, or old batteries with new ones.

Display





Note: The wireless icon will light up only at the first contact with the receiver and when sending/receiving a pulse. For the rest of the time it will remain off in order to preserve battery life



KEY LOCK



AUTOMATIC MODE











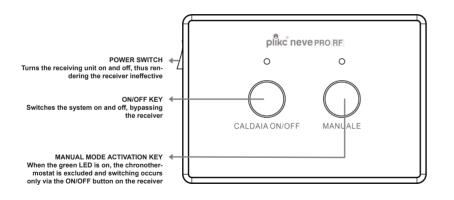






COOLING IN OPE-

Receiving unit



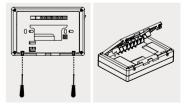
Installing and connecting the receiver

The receiver must be installed on the wall or on the cover of a three-module box, also called 503, in a covered place, protected from humidity and strong heat.

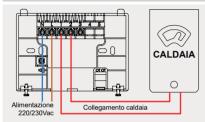
WARNING: the receiver can also be installed next to the boiler as long as it is not placed in a place where it could get water (for example, under the boiler) or very close to heat sources such as pipes or the burner compartment.

DISCONNECT THE POWER TO THE MAINS BEFORE PERFORMING THE FOLLOWING STEPS. THE RECEIVER MUST BE INSTALLED BY A QUALIFIED TECHNICIAN.

- Loosen the two screws located at the base of the receiver without removing them;
- Remove the front block of the receiving unit and fix the rear panel to the wall, with the plugs provided in the package and connect the boiler following the diagram in the next box and once connected, reattach the receiver to the panel and tighten the two screws on the base.

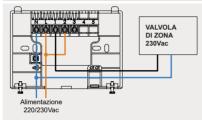


Connection with clean contact (boiler enable)



- Connect the 230Vac mains voltage to the N and L terminals (it is recommended to connect the neutral to the N terminal and the phase to the L terminal);;
- Connect the two connection wires to the heating or cooling system to terminals 1 (NO) and 2 (COM))

Connection with zone valve or other 220/230Vac load



WARNING: the connection diagram illustrated represents only one of the possible connections.

How to use the receiver

The receiver and transmitter (chronothermostat) leave the factory already tuned. Therefore, to start using the device, simply turn on the receiver using the button on the side. After a few seconds, the wireless system will switch to the operating frequency.

To test the system in heating mode (HEAT), set the chronothermostat to a temperature of $2 \sim 3^{\circ}$ C higher than the detected temperature..

The "flame" icon will immediately appear on the display, indicating that the heating is on. At the same time, the red LED on the receiver (BOILER ON/OFF) will light up to indicate that it has received the signal from the chronothermostat and will therefore close the relay contact.

If the two units do not communicate, you will need to re-tune:

- Press the ON/OFF button on the receiver and hold it down (for about 10 seconds) until the green LED starts flashing;
- Press and hold the "clock" and "house" buttons on the thermostat for 5 seconds until the thermostat beeps. The system is now aligned.

NOTE: Synchronization will not be lost even in the event of a power failure, so the procedure just described will only be necessary in rare cases.

Manual receiver control

It is possible to manually control the boiler or air conditioner connected to the receiver without temperature control and therefore excluding the action of the transmitting chronothermostat:

- Press the MANUAL button, the steady green light will indicate MANUAL mode;
- Press the ON/OFF button to activate or deactivate the boiler. The red LED will light up when the boiler is on:
- To stop manual control and resume automatic operation, press the MANUAL button again and the green LED will turn off.

ON/OFF side switch on the receiver

On the left side of the receiver there is a physical ON/OFF switch: When it is not necessary to use the chronothermostat, for example in the summer, it is possible to turn off the device by moving the switch to 0.

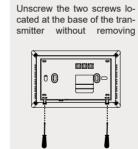


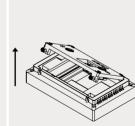
Installing the transmitter (chronothermostat):

The chronothermostat (the transmitting unit) can be fixed to the wall or can be placed on a surface using the table base. The latter can be connected to a power source using a microUSB cable. In this case the transmitter will not need batteries.

THE USE OF RECHARGEABLE BATTERIES IS NOT RECOMMENDED FOR THIS DEVICE.

Unclip the back panel;



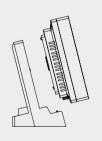


Insert 2 1.5V AA batteries into the compartment following the polarity indications;

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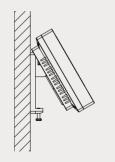
INSTALLATION WITH TABLE BASE

- Riagganciare il pannello posteriore al cronotermostato serrando le viti.
- Applicare sulla base da tavolo ad incastro



WALL INSTALLATION

 fix the rear panel to the wall or to the cover of a 503 box, using the screws and plugs supplied and reattach the thermostat:



On, off, antifreeze

Il NEVE PRO RF si accende e si spegne mediante il tasto ON/OFF che si trova a lato della ricevente ed il tasto "orologio/power" che si trova sulla trasmittente (cronotermostato).

Quando la trasmittente (cronotermostato) è spenta (OFF) entra automaticamente in modalità "Antigelo" indicata sul display con il simbolo "Antigelo". La funzione antigelo consente di selezionare una temperatura interna minima (da 0,5° a 15° C) che viene mantenuta quando il cronotermostato è spento, in modo tale da preservare l'impianto qualora la temperatura esterna scendesse al di sotto dello zero, avviando così la caldaia e riscaldando l'acqua presente nel circuito.

La funzione Antigelo può essere disattivata attraverso il menù impostazioni selezionando AntlOff.

NOTE: In heating mode (HEAT), when the set temperature is higher than the detected temperature, the "flame" symbol will appear on the display and the heating will turn on. In cooling mode (COOL), however, when the set temperature is lower than the detected temperature, the "Fan" symbol will appear on the display and the cooling system will turn on..

Setting the day of the week and time

The first thing to do after powering on the device is to set the day and time:

Press and hold the SET button for 5 seconds, and the day of the week will start flashing.

- Select the correct day of the week, from Monday to Sunday, using the up and down buttons.
- Press SET once, and the hour will start flashing. Use the up and down buttons to adjust the hour from 0 to 23.
- Press SET again, and the minutes will start flashing. Use the up and down buttons to adjust the minutes from 0 to 59.
- Press SET to confirm the changes and return to the main screen.

Thermostat or Programmable Thermostat?

IThe NEVE PRO RF comes from the factory set to "PrOG ON", which means it is in programmable thermostat mode and ready to be programmed.

If you want to use the device as a simple thermostat (without programming):

Press and hold the SET button for 5 seconds until the display shows HEAT (heating) or COOL (cooling). This will enter the settings menu.

- Press the up or down buttons to scroll through the settings menu until you reach "PrOG ON".
- Use the up and down buttons to set it to "PrOG OFF".
- Press SET to confirm the changes and return to the main screen.

Setting PrOG OFF (Thermostat Mode)

Setting PrOG OFF (thermostat mode) allows you to open and close the contact, or turn the system on and off, simply by adjusting the temperature using the up and down arrows.

In heating mode (HEAT), when the set temperature is higher than the detected temperature, the flame symbol will appear on the display, and the heating system will turn on.

In cooling mode (COOL), when the set temperature is lower than the detected temperature, the fan symbol will appear on the display, and the cooling system will turn on.

Setting PrOG ON (Programmable Thermostat Mode) - Programming

The automatic operation of the NEVE PRO thermostat is based on daily phases, which can range from a minimum of 2 to a maximum of 8 phases (by default, there are 6 phases, but you can exclude or add more).

What are daily phases?

The daily phase is a command given to the thermostat. Through it, the user sets an ambient temperature starting from a specific time. This temperature will be maintained until another command (another phase) is given, which will set a new temperature at a different time. The alternation of daily phases determines the temperature variations throughout the day or the on/off cycles of the system. If the programming is set with "odd" phases (phases 1, 3, 5, 7) at higher temperatures and "even" phases (phases 2, 4, 6, 8) at lower temperatures, the thermostat will adjust accordingly.

Example Setup

Let's say you want to turn on the radiators at 7:00 AM, turn them off at 9:00 AM, then turn them back on at 12:00 PM, turning them off again at 2:00 PM, then turn them back on at 4:00 PM and turn them off again at 6:00 PM, and finally turn them back on at 8:00 PM and turn them off again at 10:00 PM. You will set the thermostat as follows:

- Phase 1: 7:00 AM, set to 20°C.
- Phase 2: 9:00 AM, set to 15°C.
- Phase 3: 12:00 PM, set to 20°C.
- Phase 4: 2:00 PM, set to 15°C.
- Phase 5: 4:00 PM, set to 20°C.
- Phase 6: 6:00 PM, set to 15°C.
- Phase 7: 8:00 PM, set to 20°C.

• Phase 8: 10:00 PM, set to 15°C. With this programming, when it's 7:00 AM, the thermostat will enter Phase 1 and will turn on the radiators to reach 20°C. This will continue until 9:00 AM, when Phase 2 set to 15°C will turn off the radiators. At 12:00 PM, Phase 3 will turn the radiators back on to 20°C, and this cycle will continue throughout the day.

Important: If the internal temperature drops below 15°C for any reason, the radiators will turn on before the next phase starts. This allows the thermostat to automatically maintain the desired temperature and adjust for any sudden drops in room temperature.

Weekly Mode Programming

You can choose from 3 types of weekly programming modes:

- 5+2: Two groups of days with a unique and individual schedule for each group:
- 1st Group: Monday to Friday (LUN VEN).
- 2nd Group: Saturday and Sunday (SAB DOM).
- 7 Days: A single group of days from Monday to Sunday (LUN DOM) with a unique program.
- 24 Hours: The ability to program each day of the week separately and differently.

Note: The factory settings of the thermostat are set to the 5+2 weekly programming mode, as indicated in the following table:

Note: If you do not need all 8 daily phases, you can exclude them as follows:

- 1. Once you have selected the phase to exclude, press the ON/OFF/OROLOGIO button.
- 2. Instead of the time, the display will show "- - -".
- Press SET to confirm.
- 4. Repeat the same procedure for all phases you wish to exclude.

Keep in mind that if the excluded phase was in the middle (for example, phase 5), the subsequent

phases will shift backward, so phase 6 will become phase 5.

If you do not need all 8 daily phases, you can exclude them in this way: once you have selected the phase to be excluded, press the "clock/power" button. Instead of the time, the display will show "----" then press the "SET" button to confirm. Repeat the same procedure for all the phases to be excluded, taking into account that if the deleted daily phase was intermediate, for example 5, the subsequent ones will be moved backwards, therefore 6 will become 5.

Note: Another way to neutralize the daily phases that are not needed is to set them to a temperature low enough to prevent any activation. For example, setting them to 10°C.

5+2 Mode

- 1. Press the PRG button once.
- 2. Press the up or down buttons until the days "MON-TUE-WED-THU-FRI" start flashing.
- Press the SET button once, and Phase 1 and the time will start flashing. Use the up or down buttons to adjust the start time of the phase.
- Press SET again and use the up or down buttons to set the desired temperature, then press SET to confirm.
- At this point, Phase 1 is set, and you will proceed to Phase 2. Repeat the steps described above to program the following daily phases.
- Once all daily phases are programmed, the thermostat will return to Phase 1, and the days "MON-TUE-WED-THU-FRI" will flash.
- 7. Press the PRG button until the days "SAT-SUN" flash.
- 8. Repeat the programming procedure from step 3 to step 4.
- When both groups are set to the desired settings, press HOME to confirm or wait 60 seconds for the automatic confirmation

7 days Mode

Press the PRG button once.

SET to confirm.

- Press the up or down buttons until the days "MON-TUE-WED-THU-FRI-SAT-SUN" start flashing.
- 3. Press the SET button once, and Phase 1 and the time will start flashing.
- 4. Use the up or down buttons to adjust the start time of the phase.
- 5. Press SET again and use the up or down buttons to set the desired temperature, then press
- At this point, Phase 1 is programmed, and you will proceed to Phase 2. Repeat the steps described above in steps 3 and 4 to program the subsequent daily phases.
- Once all the daily phases are programmed, the thermostat will return to Phase 1, and the days "MON-TUE-WED-THU-FRI-SAT-SUN" will flash.
- 8. Press HOME to confirm the settings or wait 60 seconds for automatic confirmation...

24 Hours Mode

- Press the PRG button once.
- 1. Press the up or down buttons until the day "MON" (Monday) starts flashing.
- Press the SET button once, and Phase 1 and the time will start flashing. Use the up or down buttons to adjust the start time of the phase.
- Press SET again and use the up or down buttons to set the desired temperature, then press SET to confirm.
- At this point, Phase 1 is programmed, and you will proceed to Phase 2. Repeat the steps described above in steps 3 and 4 to program the subsequent daily phases.
- Once all daily phases are programmed, the thermostat will return to Phase 1, and the day "MON" will flash.
- 6. Press the up button to move to "TUE" (Tuesday).
- 7. Repeat the steps from step 3 to step 8 until the day "SUN" (Sunday).
- When all 7 days are programmed, press HOME to confirm the settings or wait 60 seconds for automatic confirmation.

Note: If you do not need all 8 daily phases, you can exclude them as follows: once you have selected the phase to exclude, press the ON/OFF/Clock button. Instead of the time, the display will show "- - - -". Press SET to confirm. Repeat the same procedure for all phases you wish to exclude. Keep in mind that if the excluded phase was in the middle (for example, phase 5), the subsequent phases will shift backward, so phase 6 will become phase 5.

Note: another way to neutralize the daily phases that are not needed is to set them to a temperature low enough to prevent any possible activation.

For example, set them to 10°C

Modalità manuali di funzionamento

Il cronotermostato dispone di 4 modalità manuali:

- Modalità manuale temporanea
- Modalità manuale permanente
- Modalità manuale oraria
- Modalità vacanze

Temporary Manual Mode

Ihe thermostat will maintain the manually set temperature until the next daily phase change.

- In Auto mode, press the up or down buttons to set the desired temperature.
- Press Home to confirm the changes or wait 60 seconds for automatic confirmation.
- The display will show the "HAND" and "CLOCK" symbols, and the clock will alternate between showing the time remaining until the next daily phase.

To return to Auto mode, press the HOME button.

Permanent Manual Mode

The thermostat will maintain the manually set temperature until the Home button is pressed again. In Auto mode, press the up or down buttons to set the desired temperature.

- Press SET, and the "Hand" symbol will appear on the screen.
- Press HOME to confirm the changes, or wait 60 seconds for automatic confirmation.

To return to Auto mode, press the HOME button.

Hourly Manual Mode

The thermostat will maintain the manually set temperature for a time period ranging from 1 to 24 hours

- Press the up or down buttons to set the desired temperature.
- Press SET, and the "Clock" symbol will appear on the screen.
- Press SET again, and the "Clock" and "Hand" symbols will appear, with "1H" flashing in the time field.
- Press the up or down buttons to set the desired duration between 1H and 24H.
- Press Casetta to confirm the changes or wait 60 seconds for automatic confirmation. The clock will alternate with the display of the remaining time.

To return to Auto mode, press the HOME button.

Holiday Mode

The thermostat will maintain the manually set temperature for a time period ranging from 1 to 99 days.

- Press the up or down buttons to set the desired temperature.
- Press SET, and the "Manual" symbol will appear on the screen.
- Press SET again, and the "Manual" and "Time" symbols will appear, with "1H" (hours) flashing
 in the time field.
- Press SET again, and the "Vacation" symbol will appear, with "1d" (days) flashing in the time field.
- Press the up or down buttons to set the number of days you want (from 1 to 99 days).
- Press the Home button to confirm the changes or wait 60 seconds for automatic confirmation.
 The clock display will alternate with the remaining days.

To return to Auto mode, press the HOME button.

Key Lock, Partial (PA) and Full (FU)

Press and hold the PRG button for 5 seconds to activate the key lock function.

The "Lock" symbol will appear on the screen, followed by the message "LOC" for 3 seconds, indicating that all buttons are now locked. To unlock the buttons, press and hold the PRG button again for another 5 seconds. The message "UNLO" will appear for 3 seconds, and all buttons will become usable again.

You can preset 2 different key lock modes:

- LOC PA (Partial Lock): The entire keyboard is locked, except for the "Clock/On/Off" buttons and the up and down buttons to adjust the temperature.
- LOC FU (Full Lock): The entire keyboard is completely locked.

To select one of these two key lock options, you will need to access the settings menu, as described on the next page.

Backlight

The backlight turns on when any button is pressed and turns off after 15 seconds of inactivity.

Technical Settings - Settings Menu

Options: HEAT/COOL, CAL, dIFF, bEEP, HL, CL, PrOG, LOC, Antl ON, Antl 5.0°C, rESE.

To access the advanced menu:

Premere per 5 secondi il tasto Casetta:

- Il display visualizzerà la scritta "HEAt", scorrere le voci del menù premendo il tasto SET e modificare i valori con i tasti su o giù.
- HEAt/COOL: Select Operating Mode: Heating/Cooling:
- HEAT: The NEVE PRO will operate in heating mode.
- COOL: The NEVE PRO will operate in cooling mode.
- CAL: Temperature Calibration (Offset) (-3.0°C ~ +3.0°C): It is possible to calibrate the temperature detected by the thermostat (offset) from a minimum of 3.0°C to a maximum of +3.0°C, with increments or decrements of 0.5°C.

Note: The offset is a parameter that allows you to compensate for the temperature reading from the internal sensor, correcting any potential systematic reading errors due to the placement of the room thermostat.

dIFF: Thermal Differential Adjustment (-0.2°C ~ 2.0°C): The thermal differential is the tolerance range of the device for opening and closing the contact, meaning the turning on and off of the system. The default value is 0.3°C. For example, if you set the desired temperature to 20°C. the heating will turn on when the room temperature is less than or equal to 19.7°C, and will turn off when the room temperature is greater than or equal to 20.3°C.

Note: It is recommended to leave the default value of 0.3°C for optimal performance.

bEEP: ON/OFF - Audible Signal when Pressing Buttons:

HL: Maximum Temperature Limit Set to 35°C: This function allows you to limit the maximum temperature that the user can set. For example, if the HL (maximum limit) is set to 20°C, the user will not be able to set the temperature above this limit.

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- **CL:** Minimum Temperature Limit Set to 5°C: This function allows you to limit the minimum temperature that the user can set. For example, if the CL (minimum limit) is set to 10°C, the user will not be able to lower the temperature below this limit.
- **PrOG:** Chronothermostat/thermostat mode selection: ON (chronothermostat) / OFF (thermostat), see dedicated paragraph;
- LOC: Keypad lock mode selection: PA (keypad partially locked) / FU (keypad fully locked). See dedicated section 'Keypad lock';
- Antl: Antifreeze activation / deactivation: ON: when the chronothermostat is switched off it goes into 'Anti-Freeze' mode / OFF when the chronothermostat is switched off it does NOT go into 'Anti-Freeze' mode:
- **ANTI** (5.0°): Set antifreeze temperature: Set antifreeze temperature, minimum 0.5°C, maximum 15°C

rESE: Restore factory settings: Press , the display will show '----', then press the key again. All icons will appear on the display for a few seconds. Then the main screen will return, indicating that the reset was successful.

When to replace batteries

If the icon "battery" flashes on the display of NEV REPRICE, it means that the batteries are already discharged or in any case not charged enough to guarantee correct operation of the device. The batteries must therefore be replaced as soon as possible.

NOTE

USE ONLY HIGH QUALITY ALKALINE BATTERIES THAT DO NOT EXPIRE AFTER 8 YEARS. MOST OPERATING MALUNCTIONS ARE EXCLUSIVELY RESULTING FROM LOW QUALITY, LOW CHARGE, OR NEAR EXPIRY BATTERIES. THE USE OF RECHARGEABLE BATTERIES IS NOT RECOMMENDED FOR THIS PRODUCT.

Safety warnings:

- In order to prevent the display of the thermostat from fluctuating greatly, special treatment has been given to the internal probe. Therefore, it is normal for the thermostat not to be able to display the sudden change in temperature immediately;
- For correct temperature detection and optimal viewing of the LCD display, we recommend installing the chronothermostat at a height of 1.5 metres above the ground;
- It is recommended not to install the thermostat behind doors, near windows, near hot/cold air ducts, radiators, flues or heat pipes;

- Do not open the casing by uncovering the internal circuit. The user must not tamper with the device for any reason whatsoever under penalty of forfeiting the warranty;
- The device must be installed and commissioned by a qualified technician, scrupulously observing the connection diagrams in this manual;
- After installation, before accessing the connection terminals, ensure that the conductors are not live;
- Do not connect or power the device if any of its parts are damaged;
- The device must be installed and commissioned in accordance with the regulations in force for electrical installations;
- Do not use the device for purposes other than those indicated. The device must only be installed in closed, dry rooms;
- Avoid contact with water, dust or other substances that could cause damage to the chronothermostat;
- Dispose of the device in an environmentally compatible manner.

The manufacturer accepts no liability for damage caused by incorrect installation, improper use of the device or use not in accordance with this manual.

Precautions when installing and using the thermostat

- The digital chronothermostat is exclusively for indoor use (closed rooms, garages, porches, etc.).
- Do not install outdoors or in places directly exposed to rain.
- Do not install in places with high humidity.
- The chronothermostat can only operate one device.
- Connecting several devices in cascade or in series (e.g. a heater and a fan) does not guarantee correct operation of the device.
- Disconnect mains power before connecting any devices.
- Use extreme caution when wiring for connection to equipment and mains: incorrect connection or unreliable shielding of electrical cables can cause damage to the device and endanger your safety.





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The crossed-out bin symbol on the appliance indicates that the product, at the end of its life, must be treated separately from household waste and must be taken to a separate collection point for electrical and electronic equipment, or returned to the seller when purchasing a new equivalent appliance. The end user is responsible for returning the equipment. Proper separate collection for subsequent forwarding of the discarded equipment for recycling, treatment and environmentally sound disposal helps to avoid possible negative effects on the environment and health. In addition, proper waste disposal promotes the recycling of materials from which the product is made. For more detailed information on available collection systems, please contact the waste disposal service of your municipality. Unauthorised disposal or uncontrolled abandonment of the product by the user results in heavy administrative penalties...











The packaging material in the box must also be disposed of correctly. For separate collection, follow the graphic indications on this page and on the main box, always checking the specific regulations of your municipality. Empty the packaging before handing it in for collection and remember to reduce its volume as much as possible.

MADE IN PR C