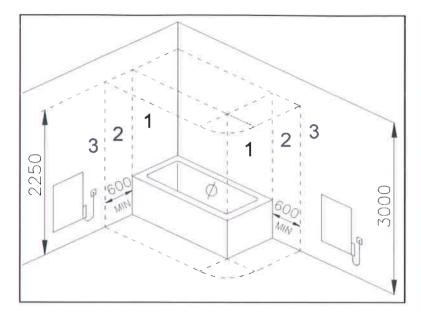
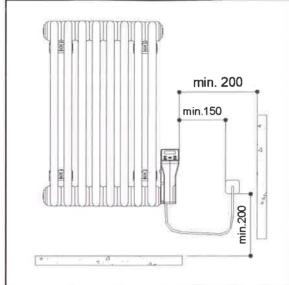
INSTALLING THE DEVICE

Before connecting the heater, turn off the electricity at the general circuit breaker.

The heater can be installed in all rooms of the house, included bathrooms according to ref. IEC 60364-7-701.

The heater must be installed 15 cm minimum of any obstacle (shelves, curtains, furniture etc.).



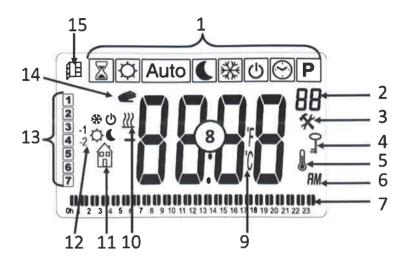


TECHNICAL FEATURES

Product	Electric radiator		
Application	Domestic use		
Insulation class	CLASS II		
IP class	IP24		
Plastic color	White		
Power cable color	White		
Temperature selection	Numeric		
Adjustment mode	Numeric with 5 keys		
Operating mode	Comfort, Reduced, Antifreeze, ECO, Chrono, Vacation, Oper window detection, Child protection, ITCS, Key lock		
Temperature range	0.5 + 30°C		
Maximum power	2000W		
Supply voltage	230Vac 50Hz		
Electric connections	3 cables: neutral (blue/gray), phase (brown), Pilot wire (black)		
Warranty	2 years		
Standard	EN 60335-1, EN 60335-2-30 EN 61000-3-2, EN 61000-3-3 EN 62233 EN 55014-1, EN 55014-2		

DISPLAY

This display is equipped with backlight.



- 1. Operating mode menu (active mode is framed)
- 2. Program number, parameter number if icon "3" is displayed or "FP" if pilot wire is activated in Auto mode
- 3. Installation parameters menu
- 4. Key lock function indicator
- Room temperature indicator
- 6. Time type (12H AM/PM or 24H)
- 7. Graphic view of the current day program in function
- 8. Measured temperature or setpoint temperature or time
- 9. Temperature unit
- 10. Heating demand
- 11. Pilote wire commands (Auto mode) / type of set point temperature (modes)

 12. Pictogram for comfort / reduced / Auto / antifreeze mode: comfort or reduced setppoint or menu for displaying consumed power
- 13. Current day number of the week
- 14. Override function in Auto mode or ITCS operating if blinking
- 15. Opened window function 🖽

7. **KEYBOARD**

Keyboard is composed by 5 keys:



= navigation key



= On/Off key



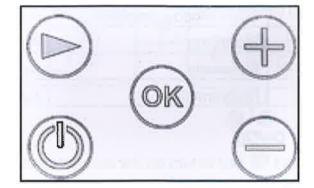
= validation key



= plus key



= minus key



FIRST INSTALLATION

When the thermostat is switched on, or after a momentary tension cut, all the pictograms are displayed on the LCD screen:



The user can then see a second screen, which displays the current software version of the unit:

The third screen depends on the status of the thermostat:

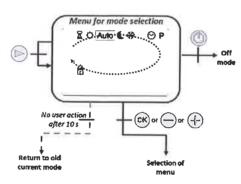
- The first time the thermostat is started, the screen for changing the time is displayed.
- After a power failure, this will be the screen for the current mode.
- After resetting the thermostat, the screen for changing the time will be displayed.
- When the thermostat is installed for the first time or after reconnecting the thermostat, the user must configure the time and date

OPERATION

To change the current thermostat mode, the user must press navigation key
to display the working model.

The user moves the frame cursor to select a working mode. To select a mode, press on . • or e kev.

Confirm the selected mode by pressing skey, otherwise the thermostat will automatically return to the last selected mode.



Icon	Mode or function	Description		
₿	Comfort	Activates and configures the comfort mode temperature		
•	Reduced (Eco)	Activates and configures the Eco mode temperature		
*	Frost protection	Activates the Frost protection mode		
	Pilot wire	Activates the Pilot Wire mode		
9	Time	Activates the day and time modification		
	Boost (timer)	Activates the radiator to maximum power		
Ĵ	Keyboard lock	Key lock activation		
囲	Open window detection	Activating open window detection mode		
(b)	Start/Stop	Activating/Stop of the device		
Auto	Automatic	Activating the Automatic Mode		
P	Programming	Activating the Programming Mode		

9.1 On/Off

Press wkey to turn on the device or put it in OFF mode. When the device is turned on, the display shows the temperature and time.

In the OFF mode, the display shows the current time and day of the week.



9.2 Operating modes

Press the less the le different types of modes, are displayed.

9	â	,	,()	*	Auto
Time	Pilot wire	Comfort	Reduced	Antifreeze	Automatic

9.3 Comfort mode

In this mode, the unit is used at a pre-configured comfort temperature. You can however change the temperature and choose another one.

If you press e and keys, the comfort temperature starts flashing you can modify it.

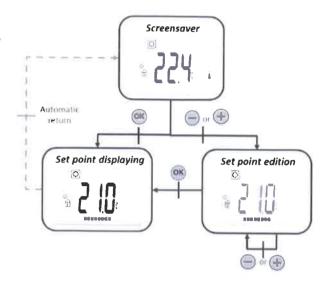
If you press key, the set temperature value is activated.

This set temperature will be used in mode Auto during the "high phase" of the selected programme

The key is used to switch from the measured temperature to the set temperature.

If you press le key, the navigation menu will be displayed; if you press key, the thermostat is deactivated.

Preset value: 19°C. Interval: 10°C to 30°C.



9.4 Reduced mode (Eco)

In this mode, the unit operates at a reduced set temperature. However, you can change the temperature and select a different one.

If you press e or key, the reduced set temperature starts flashing and you can modify it.

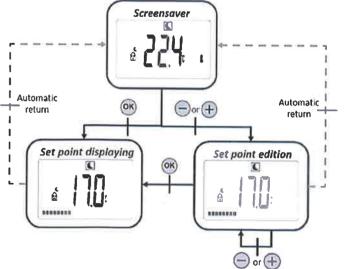
If you press (98) key, the set temperature value is activated

This set temperature will be used in mode Auto during the "low phase" of the pre-selected programme 🛍

The ® key allows you to switch the display from the measured temperature to the set temperature

If you press le key, the navigation menu will be displayed; if you press key, the thermostat is deactivated. Preset value: 17°C.

Interval: 5,0 to 19 °C (or 0.5°C lower set temperature if lower)



9.5 Automatic mode Auto

In this mode, the thermostat follows the selected programme (integrated from P1 to P9 or customised from U1 to U4) according to the time and the current configurations of the Comfort setting and reduced temperature.

The key allows you to switch the display from the measured temperature to the set temperature and duration.

From any screen if you press and the keys, you can easily display the current program temperature and change its value. The control starts flashing and the value can be changed.

The control starts flashing and the value can be changed.

If you press key, the set value is activated.

The hand symbol is displayed when the override function is activated.

This override continues during the next

phase (programme modification in progress, another temperature set) or for a maximum of 24 hours.

If you press key, the navigation menu will be displayed; if you press key, the thermostat is deactivated.

9.6 Antifreeze mode 🛣

In this mode, the thermostat operates in frost protection.

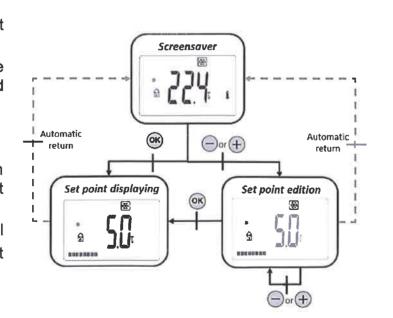
If you press or key, the temperature setting for antifreeze mode starts to blink and you can modify it.

If you press key, the value of the temperature setting is activated.

The key allows to switch the display from the measured temperature to the set temperature.

If you press key, the navigation menu will be displayed; if you press key, the thermostat is deactivated.

Preset value: 7 °C.
Interval: da 0,5 a 10 °C.



After 2 hours or

next program step

Set point derogation

Screensaver

Set point displaying

Time displaying

9.7 Off mode (OFF)

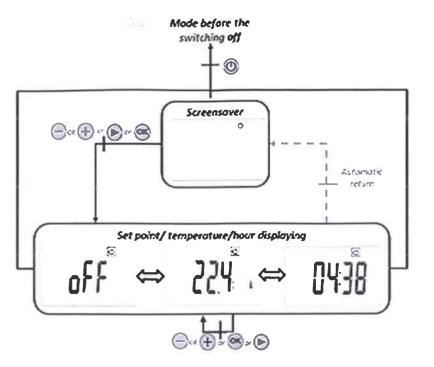
If you press key the thermostat is switched off - OFF mode.

After you have pressed on any of 4 keys (or or or or), the measured temperature is displayed.

After a few seconds, this information is no longer displayed.

During this mode antifreeze function is deactivated.

If you press key (a), the thermostat reactivates in the last selected mode



9.8 Boost mode (timer)

This mode allows you to use the unit at maximum power for a set period of time.

Configuring the Boost operation time:

The time value is configured using and be keys.

The skey confirms the chosen time value and starts the boost period.

Boost preset value: 30 minuti.

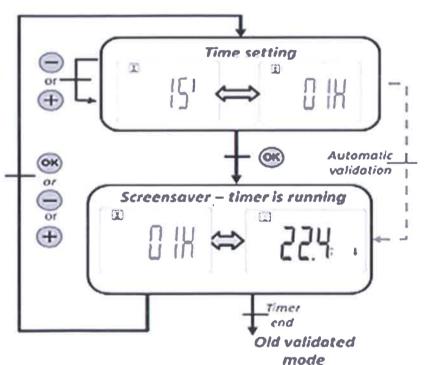
Range of values: 15, 30, 45 and 60 minutes.

If timer is running:

The boost symbol flashes. The remaining time and the measured temperature are displayed. Press or the time value.

If you press key for one second you access the mode selection menu.

Press key to turn off the thermostat and reset the timer.



9.9 Mode for changing the time

This mode allows you to change the time and date of the device.

Time and day settings:

- Time setting
- Minutes setting
- Day setting (1 value corresponds to Monday)

Date settina:

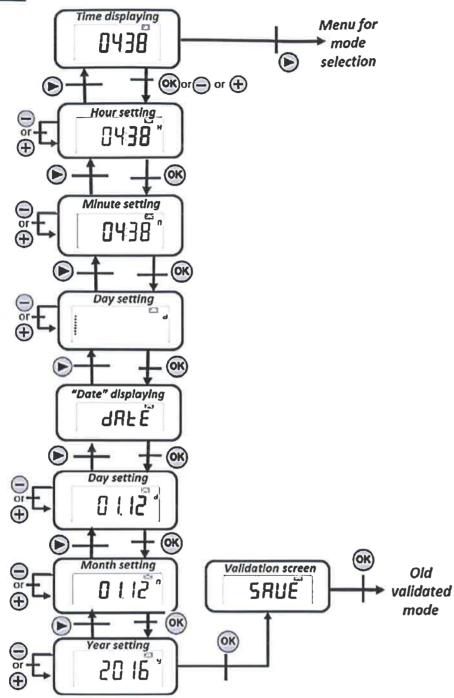
- Choose the day
- Choose the month (01 corresponds to January)
- · Choose the year.

Each time a value flashes it can be set with and the keys. The value of the setting is confirmed with key.

The key takes you back to the previous setting.

If you do not press any key, the thermostat will automatically return to the previously selected mode.

If you press , you switch off the device and time configuration is stopped, deleting the changed and nonconfirmed values.



9.10 Programming mode P

Current program displaying

If you press key you return to the mode selection menu. Press key to return to automatic mode. Press or key to change the program number.

Programme number editing

12

If you press key you change the displayed day of the chosen program.

Press or key to change the program number. Press key to confirm the selected program. If you press for 1 second key during selection of a user program (U1 – U4), you can modify it.

Description of preset programs (P1 - P9):

- P1: Morning (7h-9h), Evening (17h-23h) and Weekend (8h-23h)
- P2: Morning (7h-9h), Noon (12h-14h), Evening (18h-23h) and Weekend (8h-23h)
- P3: Week (6h-23h), Saturday (7h-24h) and Sunday (night (0h-1h). day (7h-23h))
- P4: Evening (15h-23h), Saturday (7h-24h) and Sunday (night (0h-1h). day (7h-23h))
- P5: Morning (6h-8h), Evening (21h-23h), Saturday (morning (7h-9h), evening (18h-24h)) and Sunday (morning (7h-9h), evening (18h-24h)).
- P6: Morning (6h-8h), Afternoon (14h-21h) and Weekend (7h-21h)
- P7: Office: from Monday to Friday (7h-19h) and Weekend (stop)
- P8: Shop: from Monday to Friday (8h-19h), Saturday (8h-18h) and Sunday (stop).
- P9: Second house: from Friday (13h) to Monday (17h).

User programs editing (U1 - U4)

When you are editing a user program, the thermostat shows the next image

Temperature pictograms

- the comfort temperature is applied during the selected time interval.

Selected day Program number Time interval

Time interval

steps of 30 minutes

<u>Procedure to customize user</u> <u>programs (U1 - U4):</u>

The program change begins on the first day of the week (1 = Monday).

If you press key, you choose a reduced temperature for the chosen time interval.

If you press key, you choose a comfort temperature for the chosen time interval.

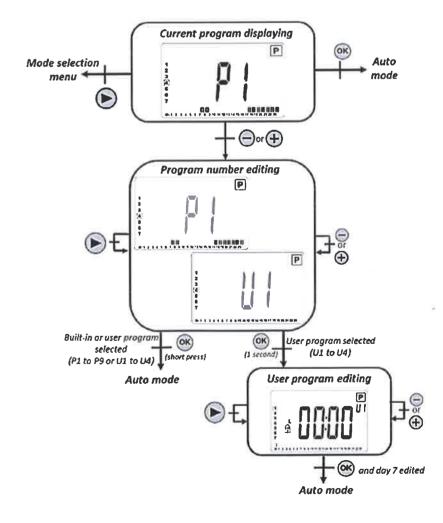
Pressing key switches to the next time interval.

Press key to confirm changes for the selected day and to move on to the next day.

When the seventh day is confirmed, the thermostat automatically returns to Auto mode

Preset value: reduced setpoint temperature.

Pressing we key stops the program selection and deletes the program changes if the last day has not been validated. No changes will be saved.



9.11 Consumption mode

This mode is only available if the heater power has been initially set and the parameter "PoW" in the parameter menu (chapter 12) is activated.

If you press or key you can modify the interval time for displaying the power consumption (last 24 hours, last 7 days and last 30 days) The power values are displayed in kWatt.

If you do not press any keys, the thermostat will automatically return to the previously selected mode

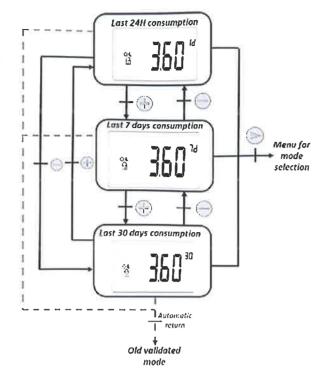
If you press key you can return to the selection mode menu.

If you press key for one second you will reset the energy consumption values.

If you press wkey you stop the device.

The estimated values are saved in the memory every 4 hours and every time the user displays this menu.

If there is a power cut, the estimated values are maintained for 24 hours after reconfiguration.



9.12 Backup of settings

This thermostat automatically saves its data (set point values, user programme and settings) when the user confirms the changes made to the settings by pressing the confirmation key.

It also saves the estimated values of its energy consumption:

- 1. Every 4 hours
- 2. When the user enters the consumption moden.

10. SPECIAL FUNCTIONS

10.1 Behavior displaying

When the thermostat is in Comfort/Eco/anti-freeze mode, "behaviour" information is displayed. This information is described below.

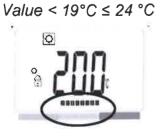
"Behavior" color

Temperature (°C)	T° ≤ 19	19 < T° ≤ 24	24 < T°
Color	GREEN	YELLOW	RED

Displaying example

When the user will configure comfort set point temperature, LCD will display with respect to the set point value:

Value ≤ 19°C





10.2 ITCS: Intelligent Temperature Control System

This function can be activated with the "ITCS parameter" in menu parameter.

When an adaptative start is realizing by the system, a hand logo es is displayed on LCD screen.

This function permits to activate your installation in advance (up to a maximum of 2 hours) when your thermostat is in Auto mode Auto to assure the desired temperature at the hour programmed following your weekly program.

ITCS realizes automatically several time and temperature measurements.

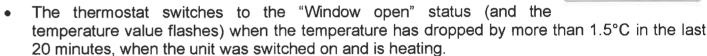
When thermostat is switched on for the first time, a default time is used to reach the setting temperature. This value will be adjusted by new measurements at each program change to offset the outside temperature evolution. Then, the thermostat can be programmed without adjustment because it will be done automatically.

10.3 Open window detection [II]

This function can be activated with the "window setting" in the settings menu.

If the function is activated, the icon person appears on the displayed screen.

This function is executed by measuring and recording the temperature change over the last 20 minutes:



• If the temperature exceeds 0.3°C in 20 minutes, the window opening status is cancelled and the thermostat automatically returns to the current mode setting

10.4 Locking keyboard

To activate this function, you must press $\ \ \ \$ and $\ \ \$ at the same time for 5 seconds. The icon $\ \ \ \$ is displayed on the screen.

All keys are locked except Start/Stop .

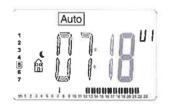
To unlock the keypad, you must repeat the same procedure.

This function is accessible in all operating modes, except in the settings menu (see chapter "Settings menu"), in the modification, programme and consumption modes and in the mode selection menu.

NOTE: In the event of a power cut, the configuration is maintained.

11. SETTING MENU

After a short period without power, the time display flashes until the user accesses the time change menu to check the values:



If the power failure lasts too long, the time and date values will be reset to the factory settings, and you will need to reconfigure these values.

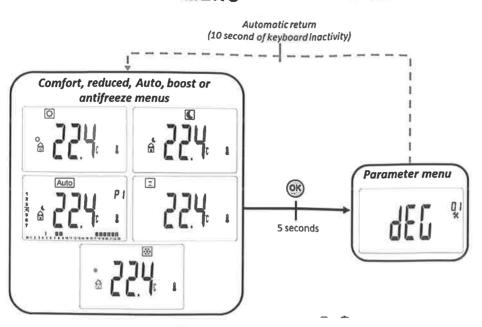
12. PARAMETERS MENU

The thermostat must be in one of the following operating modes:

Comfort , Reduced , Antifreeze , Auto Auto or Boost . To access the settings menu User, the user must hold down the key for 5 seconds after the time change menu.

The setting to be set must be selected by pressing , or .

The setting is done by pressing the keys \oplus or \bigcirc . The set value is confirmed by pressing the \bigcirc key.

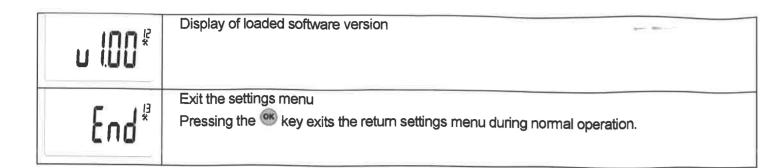


The number of settings in the menu is modified with the less key.

To exit from the settings menu, you must choose the setting "End" and press on the key ...

ורר 🖫	Temperature measuring unit			
dt u *	Preset value	Other choices		
	°C (Celsius)	°F (Fahrenheit)		
F INE	Selecting the display format of the "time" clock:			
ב וחב	Preset value	Other choices		
	24 H	12 h (AM/PM)		
d5Ł [♀]	DST - Daylight saving time If this function is activated, the thermostat automatically changes the time (summer/winter) according to the date			
	Preset value	Other choices		
	Yes (function activated)	No		
214 *	Calibration of the temperature sensor The first screen shows the measured temperature. Press the or to display the difference valuated (offset value equal to zero). Configuration of the temperature: Press or to configure the temperature value. Press to configuration of the temperature sensor. Calibrate the temperature sensor. Calibration must be done after 1 day of use with the temperature configuration, as described above: Place a thermometer in the room, at the same distance from the floor as the thermostic Check the actual room temperature after 1 hour Enter this value in the calibration settings menu using this function Press or to confirm the calibration.			
lc 5 °	ITCS - Intelligent Temperature Control System (Adaptive start-up heating in AUTO) This function is described in the paragraph "Special functions". This setting enables or disables this function.			
	Preset value	Othershaires		
	Piesel value	Other choices		

היו וחק וע 🚜	This function is described in paragraph 6.6.8 "Special functions". This setting enables or disables this function.			
00 111	Preset value	Other choices		
	Yes (function activated)	No		
الماري الم	This parameter allows to display or not the consumption mode			
1 000	Preset value	Other choices		
	No	Yes (function activated)		
HERL*	Child protection (heat limit) This configuration reduces the power of the heasetting is 100% this function is disabled			
	Preset value	Other choices		
	No (100%)	No (100%) / 75% / 50% These values correspond to a radiate power threshold.		
boo5*	Boost temperature setting Temperature set when the boost mode is activated			
	Preset value	Other choices		
	30°C	20°C to 30°C		
UBH *	Boost temperature setting Temperature set when the boost mode is activated			
	Preset value	Other choices		
	30°C	20°C to 30°C		
[[r "	CLr - Delete the unit's memory with the factory and the thermostat settings will be loaded with the Press and hold for a few seconds, the them	e factory.		
	 Set the temperature to 19°C , 17°C . Programme from U1 to U4 Increase by 30 minutes . User settings: Time displayed - "24H" Temperature unit - "°C" Detection of open window - "Yes" ITCS - "Yes" Sensor calibration - "No" Automatic daylight saving time setting - Boost set point - "30°C", Maximum comfort set point - "30°C" Child protection - "no" (100%) Reset the time 	"Yes"		



13. PILOT WIRE MODE

Do not consider this mode in the version of radiator with schuko plug.

Pilot wire cor	nmand	Screen	Pilot wire comm	nand	Screen
Comfort	助中	Auto PI	Reduced (Eco)		Auto FP
Comfort -1	-1 ¢	Auto FP	Antifreeze	* 6	Auto FP
Comfort -2	20	Auto FP	Stop	و ا	Auto FP

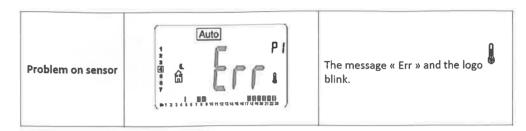
13.1 Pilot wire order priority

Mode set on the thermostat	Pilot wire control mode	Actual mode set		
	Comfort	Comfort		
	Comfort -1°C	Comfort -1°C		
Mode AUTO	Comfort -2°C	Comfort -2°C		
(comfort \bigcirc)	Comfort -3.5°C / eco	Lower value between Comfort -3.5°C and 19°C		
	Antifreeze	Antifreeze		
	Stop	Stop		
	Comfort			
	Comfort -1°C	Temperature set in ECO mode		
Mode AUTO	Comfort -2°C			
(reduced (C))	Comfort -3.5°C / eco	Lower value between the temperature se ECO mode and "Comfort -3.5°C"		
	Antifreeze	Antifreeze		
	Stop	Stop		
	Comfort			
	Comfort -1°C			
Mode AUTO	Comfort -2°C			
(manual 📤)	Comfort -3.5°C / eco	Manually set temperature		
	Antifreeze	7		
	Stop	7		

If the open window detection is activated and this function detects the opening, the thermostat follows the rules described in the paragraph "Open window detection". The thermostat displays the value of the set temperature applied to the heater. It takes into consideration the order of priority shown above.

14. MEASUREMENT ERROR

If the sensor is turned off or disconnected, an error message "Err" will appear on the thermostat display.



15. TROUBLESHOOTING

The device does not heat enough

 The device could be set in ECO MODE or ANTI FREEZE. You should set the COMFORT mode or increase the setting temperature.

The device heats continuously

- Check the position where the heater is installed: it should be far from any air flow.
- Check to be set the proper temperature.

If the problem persists you should interrupt the power supply to the heater and wait for one minute at least before turning it back on.

If the problem persists again, please contact the technical assistance.



INFORMATION FOR USERS

in accordance with article 14 of the Directive 2012/19/EU of 07/07/2012 on waste electrical and electronic equipment:

- The symbol shown above, present also on the equipment, indicates that it has been placed on the market and that, when the user decides to get rid of it, it must be disposed of in separate waste collection (including all the components, sub-assemblies and consumer materials which are an integral part of the product).
- For information on the systems for collecting these appliances, please contact the company IRSAP SPA or another subject enrolled in the various National Registers for other countries in the European Union. Waste produced in the home (or of similar origin) may be consigned to systems for the separate collection of urban waste.
- When buying a new appliance of an equivalent type, it is possible to hand over the old equipment to the seller. The seller will then contact the subject in charge of the collection of the equipment.
- The appropriate separate collection of the scrapped equipment and the subsequent operations of processing, recovery and environment-compatible disposal, allows the avoidance of potential negative effects on the environment and on human health, while favouring the recycling and recovery of the component materials.

The unauthorised disposal of the product by the user entails the application of the sanctions contemplated under the national approval of Directives 2011/65/EU, 2008/98/EC and 2015/1127/EU