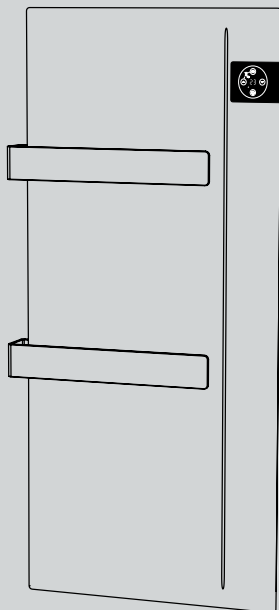
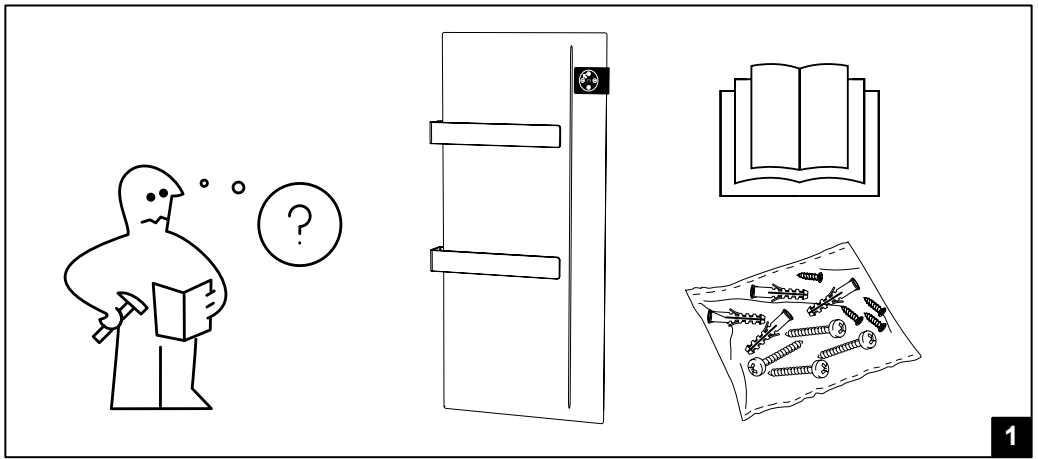




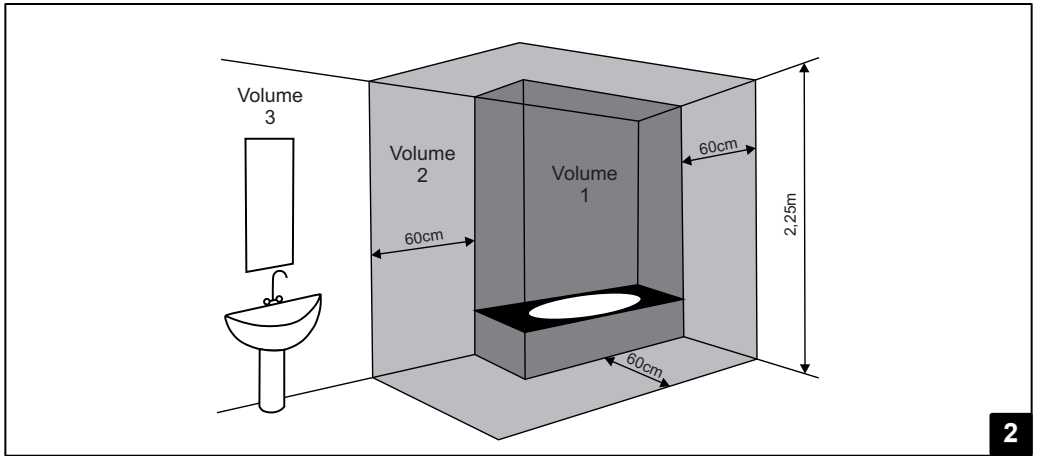
ONSEN



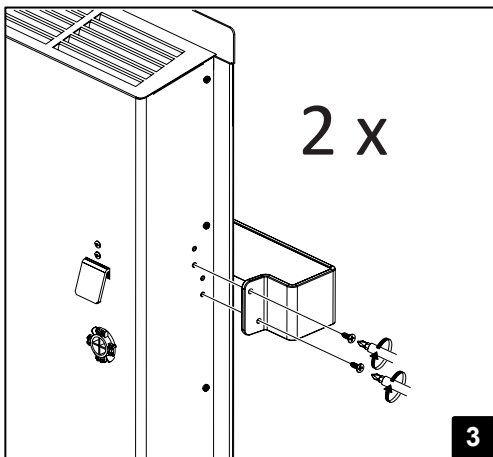
EN Please retain these instructions in a safe place for further reference.



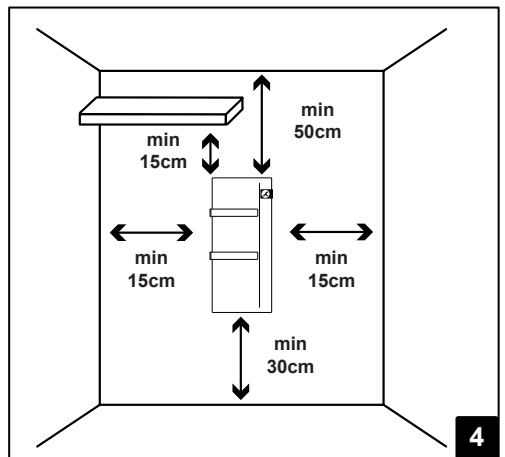
1



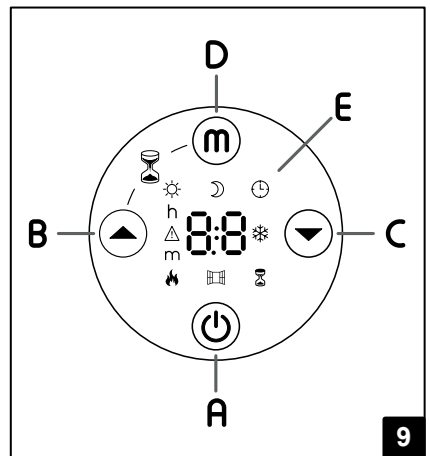
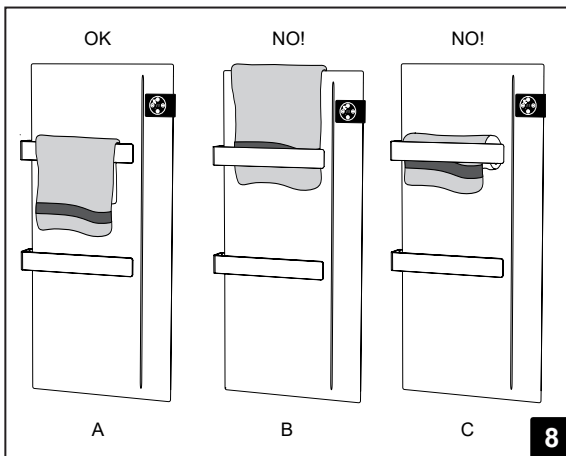
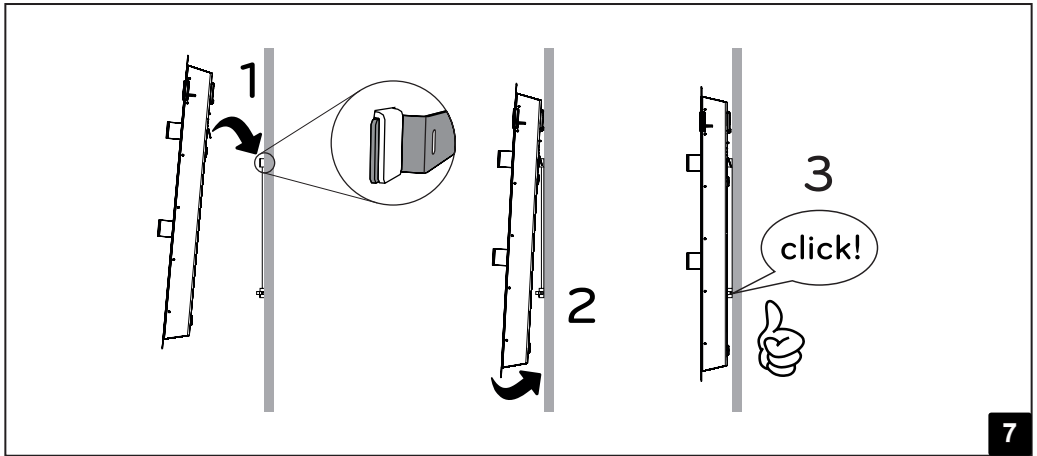
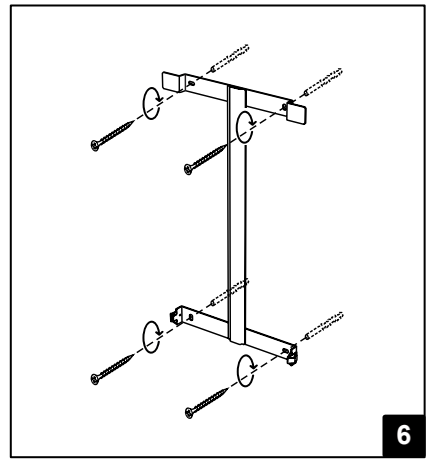
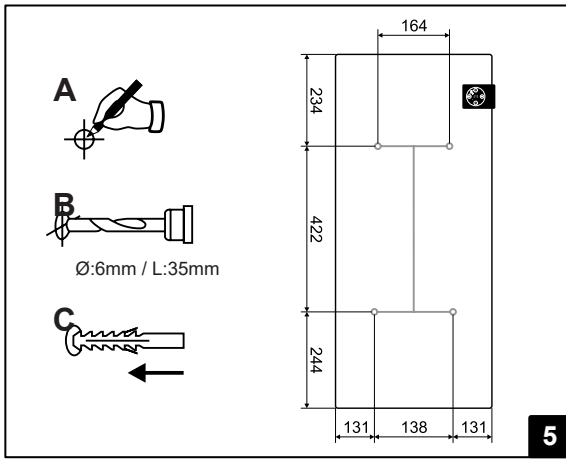
2



3



4



Before operating the heater, please read these instructions thoroughly to avoid damage and hazardous situations. Any use of this heater other than that stipulated in this instruction manual may cause fire, electric shock or injury, and voids all warranties.

Warranty does not apply to any defect, deterioration, loss, injury or damage caused by, or as a result of, the misuse or abuse of this heater. The rights dictated by State law are not prejudiced. None of the terms of this warranty are to be taken as excluding any conditions or warranties implied by State law, which cannot be excluded or modified.

Before any operation remove the packaging and check product integrity. In case of defects or damages do not try to repair it yourself but contact your dealer.

Do not let children play with the packaging and protect the environment by disposing of the packaging in accordance with the national regulations for waste processing.

1. FOR YOUR SAFETY

- This appliance is intended for normal household use and not for use in vehicles or on board ships or aircrafts.
- This appliance can be used by children aged from 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 shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.
- Children of less than 3 years should be kept away unless continuously supervised.
- Children aged from 3 years and less than 8 years shall only switch on/off the appliance provided that it has been placed or installed in its intended normal 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 aged from 3 years and less than 8 years shall not plug in, regulate and clean the appliance or perform user maintenance.
- **CAUTION — Some parts of this product can become very hot and cause burns. Particular attention has to be given where children and vulnerable people are present.**
- Make sure that your supply rating corresponds to what specified on the rating plate: 230-240V~, 50Hz.
- This heater is water resistant to IPX4. It can therefore be used in bathrooms or other areas subject to humidity AS LONG AS IT IS NOT

INSTALLED WITHIN THE PERIMETER OF BATH TUBS OR SHOWERS. This means that it cannot be installed in the areas marked as VOLUME 1 in picture 2.

- During function, place the heater in a safe position:
 - at least 1m far from inflammable objects or furnitures;
 - leaving not less than 1m of free space in front of the heater;
 - not located immediately below a socket-outlet.
- Do not leave animals or children touch or play with the appliance. Pay attention! The air outlet grille gets hot during operation (more than 90°C)
- Do not use the heater in rooms with explosive gas or while using inflammable solvents or varnish or glues.
- If the cordset is damaged and you have to change it, do not do the job yourselves! Take the product to an after sales authorised repair centre or to a person with similar skill and knowledge, in order to avoid any risk of danger.
- The appliance must be positioned so that the plug is always accessible.
- Do not mount the product on walls made of synthetic material.
- **WARNING:** Do not use this heater in small rooms when they are occupied by persons not capable of leaving the room on their own, unless constant supervision is provided.
- **WARNING:** To reduce the risk of fire, keep textiles, curtains, or any other flammable material a minimum distance of 1 m from the air outlet.

2. YOUR PRODUCT

- Other than the heater you have chosen the package includes (picture 1):
 - N° 1 metal brackets for wall mounting (fixed to the radiator);
 - N° 4 nylon plug expansion 8x50mm;
 - N° 4 5x60mm cross head screws to fix wall brackets;
 - N° 2 bars for towels;
 - N° 4 3,9x13mm screws to fix the bars to the heater.
- Refer to your dealer if something is broken or missing.

3. WALL MOUNTING

- Only fix the heater in vertical position;
- This heater is fitted with a double electrical insulation circuit (class II) and therefore does not require an earth connection.
- This heater must be correctly installed in compliance with the regulations in force in the country of installation.
- In wet spaces like bathrooms or kitchens, the connection terminal must be installed at least 25 cm above the floor. The electrical connection to the power supply must also be fitted with a two-pole switch with a minimum gap between the contacts that allows complete disconnection according to excess voltage III category conditions.
- If you want to fix one or both towel rails to the product, before fixing the appliance to the wall bracket use the supplied screws as illustrated in picture 3.

- Always make observe the minimum distances from walls, furniture and/or objects, as indicated in picture 4. Never install the product so that the distance between the floor and the lower side of the product is less than 30cm:
 - Remove the wall-mounting bracket fixed to the back of the radiator, by releasing the 2 lower springs;
 - Use a pencil to mark the position of the fixing points (picture 5).
 - Drill the 4 holes at the points marked previously, and insert the plastic anchors;
 - Fix the bracket to the wall using the 4 screws supplied (picture 6);
 - Hook the radiator to the bracket starting with the 2 upper fixing points, and then click the 2 lower fixing points into position (picture 7);
 - Should you have to remove the radiator from the bracket at a later stage, we recommend releasing the lower two fixing points first and then the upper fixings.

4. TOWELS

- Always outspread the towels over the support bars (picture 8-A);
- Do not place the towels on top of the product (picture 8-B);
- Do not roll up the towels between the bar and the front surface (picture 8-C).

5. COMMAND DESCRIPTION AND FUNCTIONING

- The following controls are available on the front panel (picture 9):
 - A - Stand-by
 - B - Increase
 - C - Decrease
 - D - Mode
 - E - Display

The product can be operated in 3 different modes: automatic, programmed or frost free.


Automatic Mode

In this mode the product works to reach and maintain the Comfort temperature set by the user. An automatic power management system allows optimum control of consumption and precise adjustment of the comfort level automatically maintaining the selected temperature constant over time, in accordance with what has been set on the electronic thermostat.

In automatic mode is also available a special feature, which is activated at user's choice, which allows to detect the possible opening of a window and force the functioning to the Frost free mode to minimize energy waste.

Programmed Mode

The product can be programmed, on hour base, for each day of the week. For each hour of the day it is possible to define the reference temperature to be reached/maintained, choosing between Comfort, Eco (whose value is equal to the Comfort temperature reduced by 3,5°C) or Frost free.


 In programmed mode the open window detection function is disabled so that the product can correctly follow the temperature profile defined by the user.

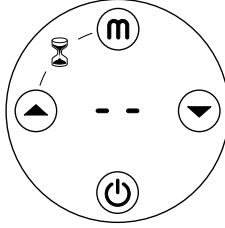
Frost free Mode

In this mode the thermostat is automatically set to maintain $7\pm 3^{\circ}\text{C}$.

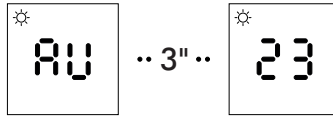
6. USING THE HEATER

STAND-BY BUTTON

Use the  button to turn on or put the product in Stand-by. When the product is in Stand-by, two white dashes appear on the display:




When the product is turned on, it activates in Automatic mode. The message "AU" is shown for 3 seconds on the display and, after, the set temperature is shown:



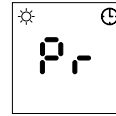
OPERATING MODES


By pressing the  button it is possible to select Automatic, Programmed or Frost free mode as described in paragraph 5:




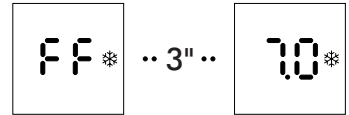
Press the  key to switch from automatic to programmed mode. The display shows "Pr".

The clock symbol and the icon relating to the operating mode set for the current time and day (comfort, eco or antifreeze) also light up on the display.






Press the  key to switch from programmed to frost free mode. The display shows "FF" for 3 seconds and then the expected temperature of 7.0 °C (not modifiable) and the antifreeze mode symbol also lights up on the display.


Press the  button again to return to automatic mode and restart the cycle.





SETTINGS


The buttons ,  and  allow you to set the current time and day, the Comfort temperature and to activate or deactivate the detection of the opening of a window. Day "1" corresponds to MONDAY.




Press the  button for at least 3 seconds to view/change the settings starting from the time.


Set the current hour using  and  buttons.





Press the  button to switch to the setting of the minutes.


Set the current minutes using  and  buttons.





Press the  button to switch to the setting of the day.


Set the current day of the week using  and  buttons (1 = Monday).



Press the  button to switch to the open window detection setting.

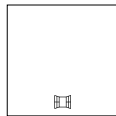
Set the function ON or OFF using  and  buttons.



Press the  button to exit the settings and resume the normal functioning.

OPEN WINDOW DETECTION

This function makes it possible to detect an open window and automatically activate the Anti-freeze operating mode. When the function is enabled and ready to set the Frost-free mode if an open windows is detected, a window icon is visible on the lower area of the display.



If a temperature drop is observed in the room during the normal functioning, the Frost-free mode is automatically activated to save energy consumption. The display shows the antifreeze temperature and the window icon flashes to show that the open window function operates.





The reset of the normal functioning is not automatic but is achieved by pressing one of the buttons of the product.



Correct operation of this function may depend on where the radiator is positioned in the room, the presence of draughts, the outside temperature, and how long the window stays open.

DISPLAY / CHANGE THE COMFORT TEMPERATURE

The Comfort temperature is shown in the Automatic mode and can be changed by pressing the  or  key. The Eco temperature, used in programmed mode, cannot be changed and is always the same as the Comfort temperature -3.5°C. The Antifreeze temperature is also fixed and equal to 7°C.

Note: The temperature measured by the inner sensor of the product is representative of the ambient temperature nearby it and it may differ from the temperature measured using other instruments in other areas of the room. That difference may depend on many factors including, for example:

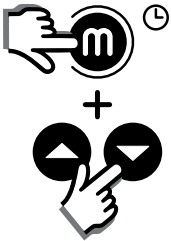
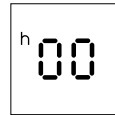
- the installation position: some areas of the room may be affected by drafts or hot air sacs that modify the sensor measurement;
- the fixation to an external wall that, being normally colder than internal walls, may imply the measurement of a temperature lower than the real room temperature;
- unstable conditions: any evaluation must be done in stable working conditions. For this purpose comfort temperature should be changed only 120min after a previous change. It is not possible, indeed, to evaluate the room temperature maintained by the product correctly if the comfort level temperature is continually changed in a short time.




If a difference between set temperature and room temperature is detected in stable working conditions, it is possible to adjust the measurement made by the electronic thermostat of the product. This operation is also particularly useful when installing the heater very close to the floor or ceiling.

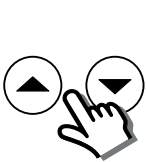
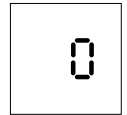
To set this correction proceed as follows:





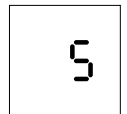
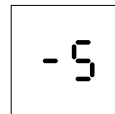
Press and HOLD the  key: the display will show the current time.




While continuing to hold down the  key, press the  and  keys at the same time. The display shows "AL" (alignment) for 2 seconds and then the actual alignment value (the default value is 0).




Use the  and  keys to set the desired alignment by choosing a value between -5 and +5. Alignment example:
If the product has been set at 19°C but in the room 20°C is measured in stable conditions, the alignment to be inserted is equal to $20-19 = 1$;
If, on the other hand, the product is set at 19°C but in the room, for example, 17°C is measured, the alignment to be set is equal to $17-19 = -2$.



Press the  button to exit the alignment and resume the normal functioning.

WEEKLY PROGRAM



The Programmed mode allows to set, for every hour of day and for every day of the week independently, the desired temperature choosing between the Comfort, Eco (equal to that of Comfort decreased by 3.5 ° C) or Frost-free.

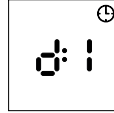
To activate the Programmed mode, press the  key until the display shows "P". If the product is brand new the default program is the following:



Always Frost-free mode except Comfort mode in the following hours:

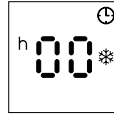
- from 06:00 to 08:00 on Monday-Friday;
- from 08:00 to 10:00 on Saturday-Sunday.


When in Programmed mode you can display/modify the program

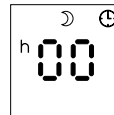
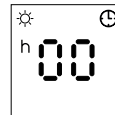
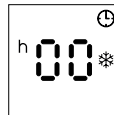
by pressing the  and  keys together.
The display shows day 1 (Monday).





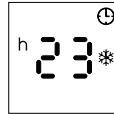
By pressing the  and  keys, the different hours of the day are displayed starting from "00" (time between 00:00 and 00:59). The reference temperature set for the selected time is indicated by turning on the antifreeze icon (temperature of 7 ° C), the Eco icon (Eco temperature = Comfort - 3.5 ° C) or the Comfort one (Comfort temperature set by the user).



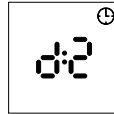
The desired temperature can be changed by pressing the  key. The lighting in sequence of the icons described above indicates the reference temperature.






Use the  and  keys to view/modify the temperature set for each of the hours of day 1, from 00 to 23.

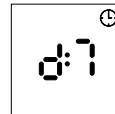
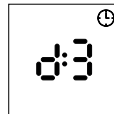



At 11 pm (23), pressing the  key again allows access to the programming for day 2.

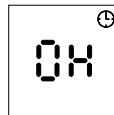


Now it is possible to choose whether to display/modify the temperature of the single hours of day 2 or set day 2 identical to day

1. In the first case, use the  and  keys as already described for day 1, in the second just press again the button . By doing so, day 2 is automatically set equal to day 1 and the system moves to the beginning of day 3. This procedure can be repeated until programming for day 7.



At the end of the programming on day 7, or in any intermediate phase of the programming, after pressing the  key, you access the program saving phase. The message "OK" appears on the display and the program just defined is stored.







Note:



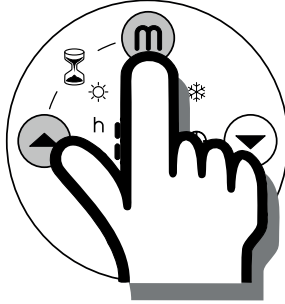
- At any time it is possible to abandon the viewing/modification procedure by deleting the modifications not yet saved by waiting 30 seconds without touching any key;
- During the programming the heating elements are disconnected and the product doesn't heat.

BOOST FUNCTION

The Boost function allows you to activate timed operation at maximum power without the thermostat control. At the end of this forced operation, the heater returns to the operating mode prior to activation.

To activate the function press and at the same time the buttons  and . The default duration of 60min flashes on the display. The duration can be chosen between the values of 60, 90 or 120 minutes (2h) using the buttons  and . 5 seconds after the last selection the function is activated.

If the remaining time is less than or equal to 59min the display shows the remaining minutes of heating. If higher the display shows the remaining minutes preceded by the word "1h" shown for 3 seconds.



7. TROUBLESHOOTING

- In the event of overheating, the safety device on the appliance automatically disabled the heating element. In this case:
 - Turn off the radiator and allow it to cool down for about 15/20 minutes.
 - Eliminate any other possible reasons for overheating (e.g.: obstructions in front of the air inlet/outlet grilles, build-ups of dirt).
 - Turn on the radiator and check it works correctly.
- If the touch control commands are blocked or don't properly answer to digital pressure, turn off the heater for 1min and then try again.

8. MAINTENANCE

- This product does not require any special maintenance.
- Clean the product with a dry cloth once every 6 months.
- If the product requires repairing, contact an authorised technical service centre.
- When replacing the power cable, use a 2x1,00mm² H05V2V2-F HAR type. This operation must be performed by qualified personnel and never by the end user in order to avoid damaging the appliance and jeopardising personal safety.

9. LEGAL NOTICE



Environment and recycling

Please help us to protect the environment by disposing of the packaging in accordance with the national regulations for waste processing.

Recycling of obsolete appliances

Appliances with this label must not be disposed off with the general waste. They must be collected separately and disposed off according to local regulations.

Information requirements for electric local space heaters

Model identifier(s): ONSEN					
Item	Symbol	Value	Unit	Item	Unit
Heat output				Type of heat input, for electric storage local space heaters only (select one)	
Nominal heat output	P_{nom}	0,75	kW	manual heat charge control, with integrated thermostat	no
Minimum heat output (indicative)	P_{min}	0,75	kW	manual heat charge control with room and/or outdoor temperature feedback	no
Maximum continuous heat output	$P_{max,c}$	0,75	kW	electronic heat charge control with room and/or outdoor temperature feedback	no
Auxiliary electricity consumption				fan assisted heat output	no
At nominal heat output	$e_{l_{max}}$	0,000	kW	Type of heat output/room temperature control (select one)	
At minimum heat output	$e_{l_{min}}$	0,000	kW	single stage heat output and no room temperature control	no
In standby mode	$e_{l_{SB}}$	0,343	W	Two or more manual stages, no room temperature control	no
				with mechanic thermostat room temperature control	no
				with electronic room temperature control	no
				electronic room temperature control plus day timer	no
				electronic room temperature control plus week timer	yes
				Other control options (multiple selections possible)	
				room temperature control, with presence detection	no
				room temperature control, with open window detection	yes
				with distance control option	no
				with adaptive start control	no
				with working time limitation	no
				with black bulb sensor	no
Contact details:	Ermete Giudici S.p.A. - via L. da Vinci, 27 - 20090 Segrate (MI) Italy				

Reference values at 230V 50Hz