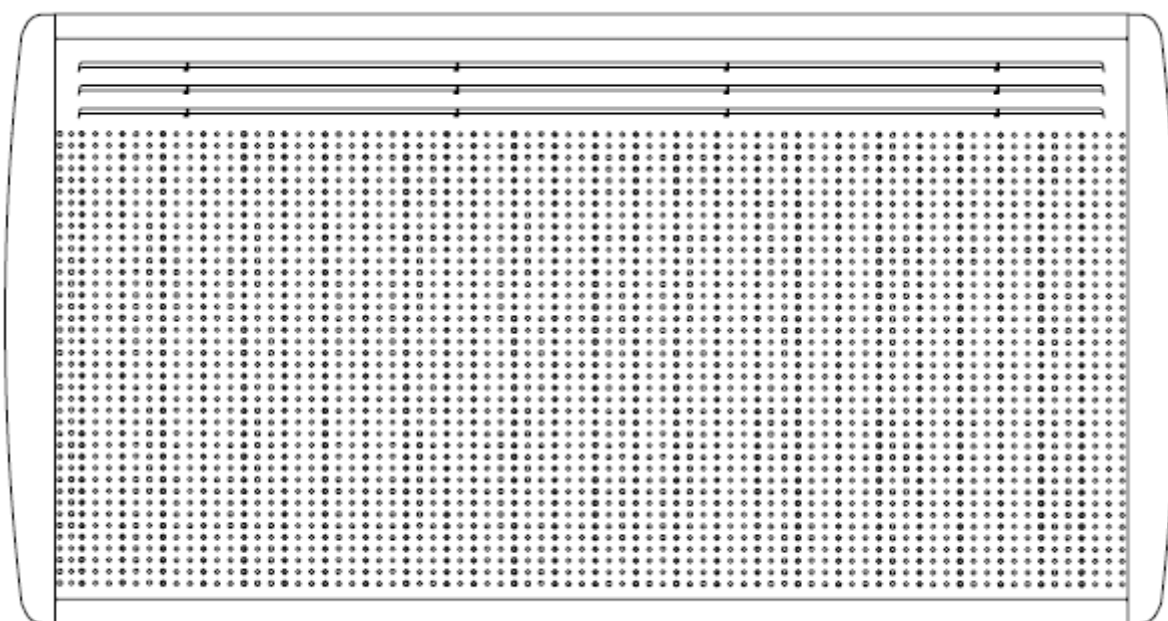


INSTRUCTION MANUAL

RADIANT PANEL HEATER

Model : HE10EPE、HE15EPE、HE20EPE



This product is only suitable for well insulated spaces or occasional use.

Safety instructions

PLEASE READ SAFETY INSTRUCTIONS CAREFULLY BEFORE USING THE UNIT.

- 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.**

- If the power cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

- The appliance must not be placed directly below a power outlet.



- **WARNINGS** : In order to avoid overheating, do not cover the heater.

- Do not use this heater with a programmer, timer, separate remote control system or any other device that turns on the heater automatically because there is a risk of fire if the device is covered or placed incorrectly.

- **CAUTION:** To avoid hazard due to inadvertent resetting of the thermal cutout, this appliance must not be powered via an external switch, such as a timer, or connected to a circuit that is regularly in and

off by the electricity supplier.

- This heater must not be disposed of with household waste; it must be taken to a local centre of recovery and recycling of electrical appliances.
- The heater must be installed so that switches and other control devices can not be touched by a person in the bath or shower.
- A means of disconnection from the power supply having a contact opening distance of all poles must be included in the fixed wiring in accordance with the installation requirements.
- The device must be powered via a residual current device (DDR) with a rated operating differential current not exceeding 30 mA.
- This heater must not be disposed of with household waste; it must be taken to a local centre of recovery and recycling of electrical appliances.
- For detailed information on the mounting method, refer to the "INSTALLATION" section.
- For detailed information on connecting the power cable, refer to the section "ELECTRICAL CONNECTION".

Description of the Symbols:

The use of symbols in this manual is intended to draw your attention to possible risks. The safety symbols and the explanations that accompany them must be perfectly understood. The warnings in themselves do not remove the risks and cannot replace correct actions for preventing accidents.

Before any use, refer to the corresponding section in this user manual.



In accordance with European directives applicable to this product



Class II symbol: this appliance is designed with double insulation. It is not necessary to connect it to earth connection.



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



The crossed-out wheeled bin symbol indicates that the item should be disposed of separately from household waste. The item should be handed in for recycling in accordance with local environmental regulations for waste disposal. By separating a marked item from household waste, you will help reduce the volume of waste sent to incinerators or land-fill and minimize any potential negative impact on human health and the environment.

Finding a suitable location :



The heater shall be installed and used according NFC 15-100.

- The installation must be done by the service agent or similarly qualified persons in order to avoid a hazard.

- Important! Make sure that there are no electric cables or other installations (for example water pipes) near the drill holes. Make sure that the appliance is securely and horizontally fitted to the wall.

- For indoor use only.
- The heater must not be located immediately below a socket-outlet.
- Respect the minimal distances between the device and the walls, the ground, the furniture etc.(Fig.1)

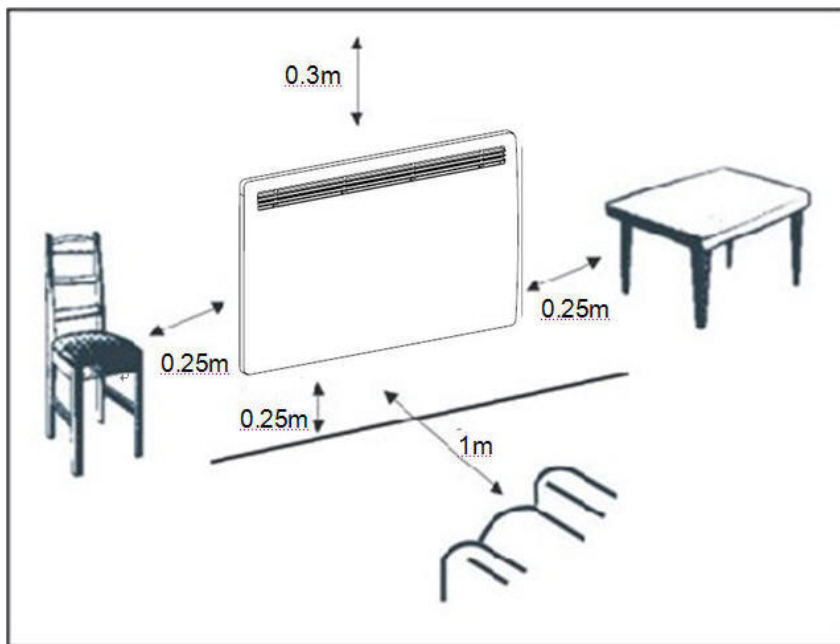


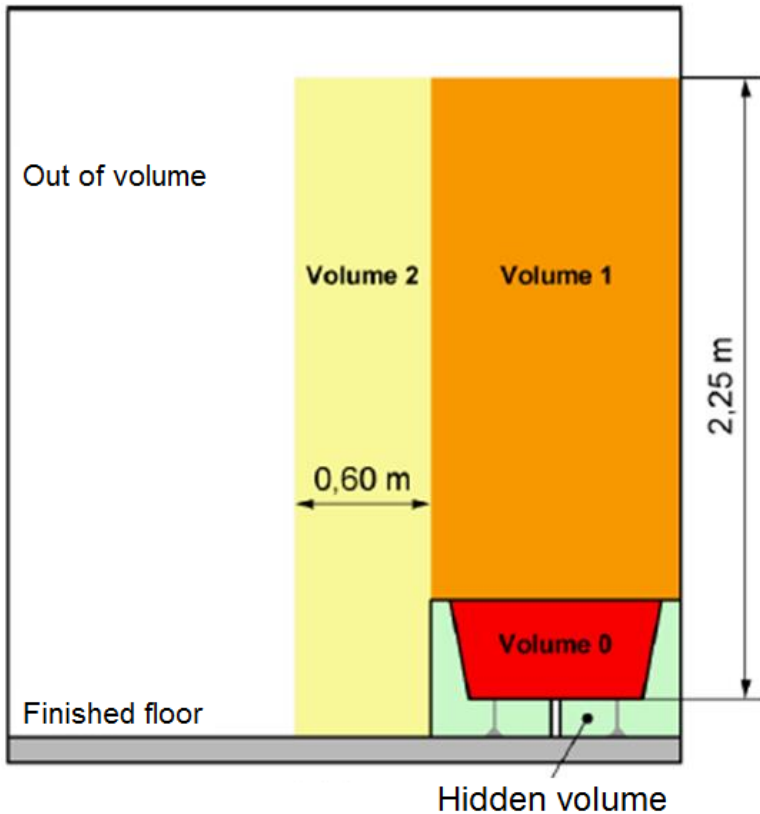
Fig.1

INSTALLATION IN THE BATHROOM

Warning: this product shall be used in volume 2 and out of volume only according to the national wiring rules (For France NF C 15-100)

Note: The drawing is for reference only .

We suggest that you contact a professional electrician for assistance.



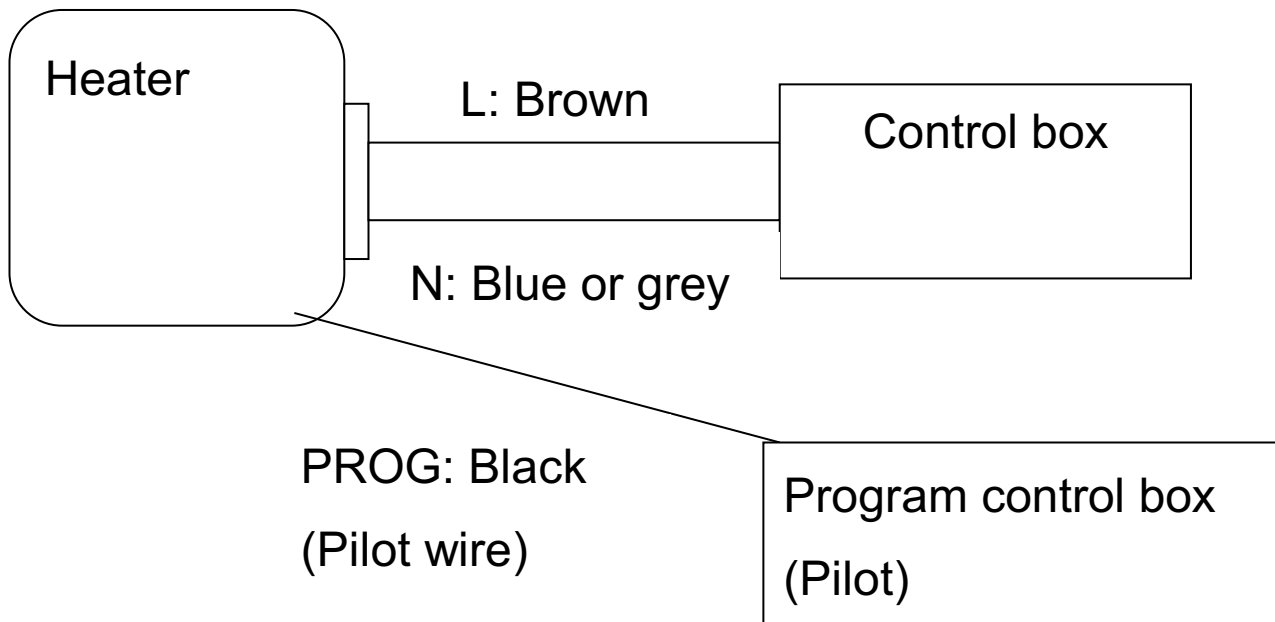
ELECTRICAL CONNECTION



When you install the device, make sure it is disconnected.

-The electrical connection is made with a flexible cable (3x0.75mm² of series H05VV-F for model No. HE10EPE, 3x1.0mm² of series H05VV-F for model No. HE15EPE & HE20EPE).

-Connect the device to the power supply via a control box, brown wire(Phase), blue wire(Neutral).



CAUTION: Before working, turn off the electricity at the main breaker.

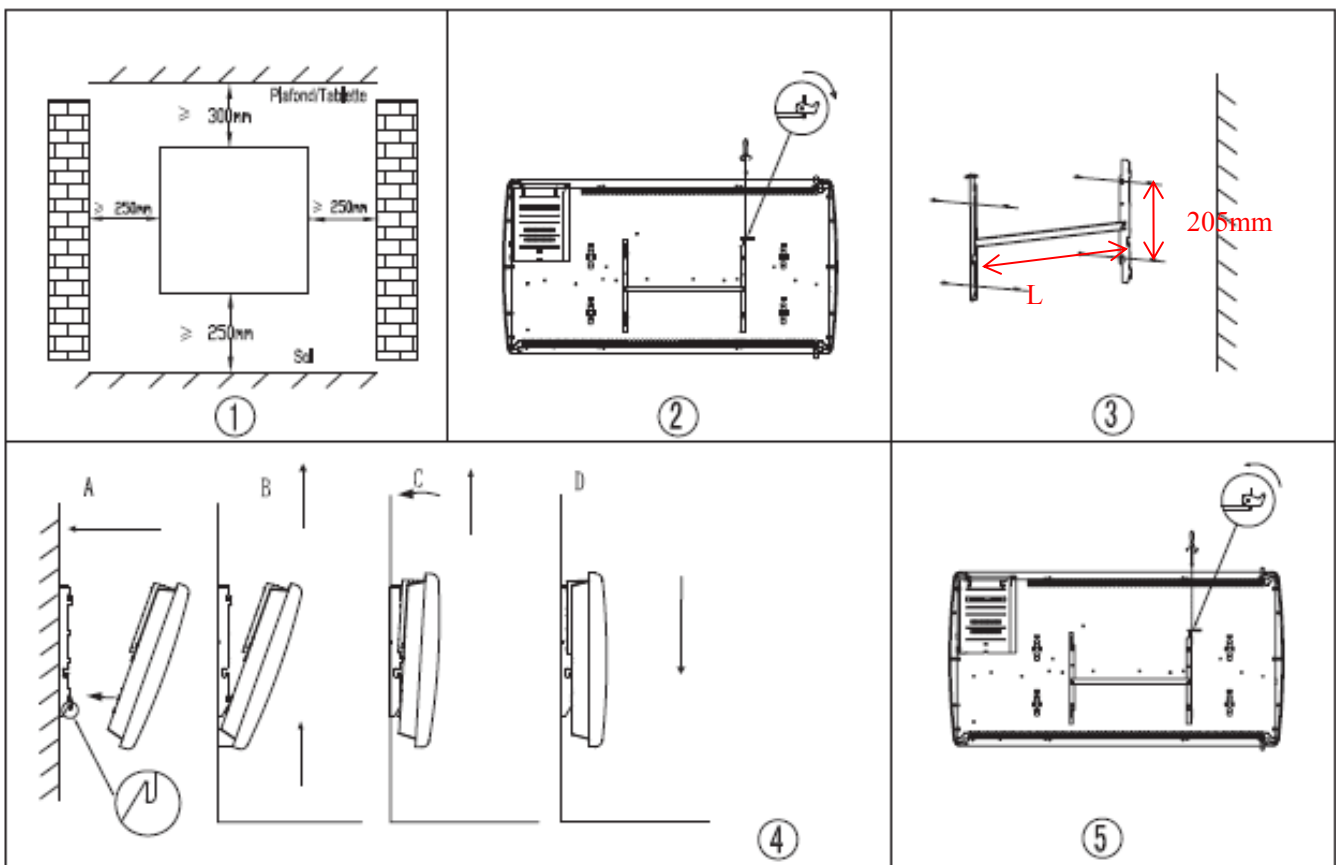
The device must be installed vertically.

- The installation must be carried out in the state of the art and comply with the standards in force in the country.
- The unit must be connected in a standard wall box at 25 cm or more above the ground.
- The appliance must not be connected to a wall outlet with plug.
- The device must be powered by a dedicated line and protected by a 30mA RCD 16A calibrated. No other appliance or outlet must not be connected to this circuit breaker.
- The connection to the earth is forbidden. Do not

connect the pilot wire (black) to earth. If there is no pilot wire, insulate the stripped end of the black wire to prevent electrical contact with other wires or ground.

- The appliance must be connected by a qualified electrician.

INSTALLATION



To hang the heater on the wall:

1. Choose a suitable installation location for the heater. (Figure 1)
2. Disassemble the wall bracket by loosening the

screw (not screw off, only loosen) and sliding the metal slice out of the hole. Take out the bracket by pulling down (Figure 2).

3. Verify that the bracket is perfectly horizontal with a spirit level and mark the location of 4 holes on the wall. Drill 4 holes in the wall using a drill adapted to the diameter of pegs. Insert the pegs into the holes, then screw securely wall mount bracket onto the wall. (Figure 3)

4. Place the heater against bracket (Figure 4):

A : Position the heater so that its lower suspension holes align with the lower hooks of the wall-mount bracket.

B : Push the heater down until the hooks fit into the holes.

C : Position the heater so that its upper suspension holes align with the top hooks of the wall-mount bracket.

D : Pull the heater down.

5. Slide the metal slice into the hole, and fasten the screw to lock the wall mount bracket (Figure 5).

Ref.	HE10EPE	HE15EPE	HE20EPE
L(mm)	190	340	340

Technical Specifications

Model	HE10EPE	HE15EPE	HE20EPE
Rated Voltage	230 V ~	230 V ~	230 V ~
Rated Frequency	50 Hz	50 Hz	50 Hz
Rated Power	1000 W	1500 W	2000 W
Protective Class	II	II	II
IP Code	IP24	IP24	IP24
Pilot wire	6 orders	6 orders	6 orders

Information requirements for electric local space heaters

Model no. : HE10EPE

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Heat Output				Type of heat input, for electric storage local space heaters only (select one)			
Nominal heat output	P_{nom}	0,5	kW	Manual heat charge control, with integrated thermostat			NA
Minimum heat output (indicative)	P_{min}	0	kW	Manual heat charge control with room and/or outdoor temperature feedback			NA
Maximum continuous heat output	$P_{max.c}$	0,5	KW	Electronic heater charge control with room and/or outdoor temperature feedback			NA
Auxiliary electricity consumption				Fan assisted heat output			
At nominal heat output	eI_{max}	NA	kW	Type of heat output / room temperature control (select one)			
At minimum heat output	eI_{min}	NA	kW	single stage heat output and no room temperature control			No
In standby mode	eI_{SB}	0	kW	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
					room temperature control, with open window detection
					with distance control option
					with adaptive start control
					with working time limitation
					with black bulb sensor
Contact details	Sangha France, 219 avenue de Provence, ZA de la Sipièrre, 13730 Saint Victoret				

Information requirements for electric local space heaters

Model no. : HE15EPE

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Heat Output				Type of heat input, for electric storage local space heaters only (select one)			
Nominal heat output	P_{nom}	0,8	kW	Manual heat charge control, with integrated thermostat			NA
Minimum heat output (indicative)	P_{min}	0	kW	Manual heat charge control with room and/or outdoor temperature feedback			NA
Maximum continuous heat output	$P_{max.c}$	0,8	KW	Electronic heater charge control with room and/or outdoor temperature feedback			NA
Auxiliary electricity consumption				Fan assisted heat output			NA
At nominal heat output	eI_{max}	NA	kW	Type of heat output / room temperature control (select one)			
At minimum heat output	eI_{min}	NA	kW	single stage heat output and no room temperature control			No
In standby mode	eI_{SB}	0	kW	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			No

				presence detection	
				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	Sangha France, 219 avenue de Provence, ZA de la Sipièrre, 13730 Saint Victoret				

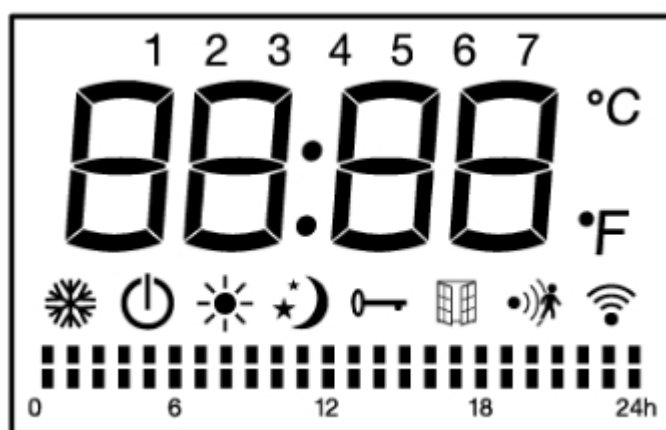
Information requirements for electric local space heaters

Model no. : HE20EPE

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Heat Output				Type of heat input, for electric storage local space heaters only (select one)			
Nominal heat output	P_{nom}	1,0	kW	Manual heat charge control, with integrated thermostat			NA
Minimum heat output (indicative)	P_{min}	0	kW	Manual heat charge control with room and/or outdoor temperature feedback			NA
Maximum continuous heat output	$P_{max.c}$	1,0	KW	Electronic heater charge control with room and/or outdoor temperature feedback			NA
Auxiliary electricity consumption				Fan assisted heat output			NA
At nominal heat output	eI_{max}	NA	kW	Type of heat output / room temperature control (select one)			
At minimum heat output	eI_{min}	NA	kW	single stage heat output and no room temperature control			No
In standby mode	eI_{SB}	0	kW	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	Sangha France, 219 avenue de Provence, ZA de la Sipièrre, 13730 Saint Victoret					

LCD display



Functions of the icons on the LCD:

Symbol	Function
	Mode standby (the appliance doesn't work but with power on)
	Mode anti-freeze (the appliance maintains the temperature around 7°C)
	Mode comfort (set the desired temperature)
	Mode eco (ECO maintains the temperature that is 3.5 ° C lower to comfort temperature. This mode reduces the temperature without disturbing the desired temperature in comfort mode)
	Mode pilot (set programs by pilot wire programmer)
	Keyboard lock
	Window detector mode

Temperature (centigrades)

Weekly personalized modes:

- Mode Comfort active
- Mode eco active
- Standby

CONTROL PANEL



Button	Function
	Standby
PRG	Personalized programs
	Window detector function
M	Comfort mode Economic mode Anti-freeze mode P1/P2/P3/P







HOW TO USE

1. How to set the current time and make the heater start working..




The purpose of setting current time is to make the pre-installed program (P1/P2/P3/Personalized) available. For more details of pre-installed program (P1/P2/P3), please see the table in HOW TO USE point 2.

There are two methods to set the current time:













(1) If the heater is not connected to electricity at the moment: once connected to electricity, the clock will pop out on the display for setting. Continue to press to toggle among hour/minute/day of week (1-7). Press the to set the **hour/minute/week**. Press buttons to finish the setting and turn to stand by mode, or after 10 seconds it will automatically finish and turn to stand by mode (under stand by mode, heater will stop working).

(2) If the heater has been working and you would like to re-set the current time: press  and  at the same time to start the time setting. Continue to press  to toggle among hour/minute/week. Press the  to set the hour/minute/week. Press other buttons except / to finish the setting, or after 10 seconds it will automatically finish.




















2. **M** button:

Press **M** button to toggle among the modes: Comfort mode , Economic mode , Antifreeze mode , pre-installed program(P1/P2/P3) and pilote mode **P**.

Under the pilot mode P, the appliance is set by the external control. When the external control chooses a certain mode, the LCD displays :

External Control Setting	LCD Displayed Icon
Comfort mode 	P 
Comfort mode  -1°C	P-1 
Comfort mode  -2°C	P-2 
Economic mode 	P 
Antifreeze mode 	P 
OFF mode 	P 

For 3 pre-installed program, please see below table:




		01:00			24:00	
Program I	Mon-Sun					
		00:00	08:00			
Program II	day workables					
		00:00	05:00	19:00		
	weekends					
		00:00	08:00	13:00	20:00	
Program III	day workables					
		00:00	05:00	12:00	18:00	
	weekends					
		00:00	05:00			

3. PRG button:

Press button **PRG** to Set the programs

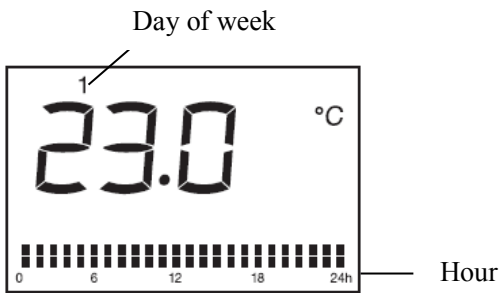
Press **PRG** button to select between “day (1-7)” and “heating mode of different period (00:00-24:00)”.

Select the desired day of week (1-7) by pressing / button.

Press **PRG** to move to the setting of “heating mode of different period (00:00-24:00)”. When setting “heating mode of different period (00:00-24:00)”, press button to choose hours, and to choose among function modes: comfort , economic , and stand by mode . After 30 seconds it will automatically save program settings.




For example: to select the day 1, comfort mode for 24 hours:


1. Press **PRG** to choose the personalized programs. Under mode PROG, Press / to select the day of week.

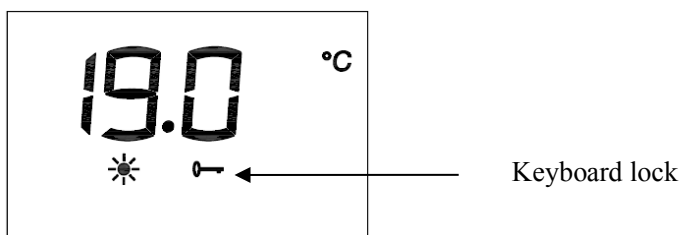


2. Press **PRG** again to move to the setting of “heating mode of different period (00:00-24:00)”. Press button to choose hours, and to choose comfort mode for 24 hours.
3. After 30 seconds it will automatically save program settings.



4. TEMPERATURE SETTING

Under the mode of comfort mode , pilot mode **P** or Eco mode  (excluding Antifreezing mode ) , press or to choose the desired temperature. It can be adjusted between 5°C and 29°C for comfort and pilot modes and between 1.5 ° C and 25.5 ° C for ECO mode. The temperature difference between the ECO mode and the COMFORT mode is 3.5 ° C. Each time you press the buttons to adjust the temperature, you increase or decrease the temperature by 0.5 ° C. Press other buttons except / to finish the setting, or after 5 seconds it will automatically finish. The room temperature sensor can automatically adjust the temperature. When the room temperature is higher than the selected temperature, the heater will stop heating.


5. Press **M** button for three seconds to activate the keyboard lock function , in order to unlock, press **M** again for three seconds.



Remarks:


1. The keyboard lock function doesn't lock the standby  button.
2. The keyboard lock function will automatically be deactivated under below circumstances.
 - 1) the appliance is turned off by pressing standby  button.
 - 2) the appliance suffer power disconnection
 You need to set again by pressing **M** for 3 seconds if you need this function.

6. Window detector function

Press  button to enter window detector function. The appliance will enter comfort mode as default. If temperature decrease detected, the appliance will automatically enter anti-freeze mode. If temperature rises up, the appliance will go back to comfort mode. You can press **M** or **PRG** button to choose other modes, or press standby button to enter standby mode.

REMARKS: under window function, pilot control is not available.

7. IN CASE OF POWER FAILURE

All of the above temperature, time, date and program settings remain valid until the power is turned off. **After a power failure, when the power is turned back on, the unit goes into standby mode.** You can press the  button to return to the selected mode and temperature before the power failure. The device only stores the parameters: temperature and thermostat mode. When the power is turned back on, the date and time must be set in order to operate the various programs P1 / P2 / P3 / Custom correctly.

IN CASE OF PROBLEMS

Problems	Solution
The device does not heat	Check the circuit breakers are on and the load- shedding device has not cut the power supply (if the installation has one).
	Select the COMFORT mode
	Increase the temperature
The heater keeps heating	Check the device is not in an air current.
	Decrease the temperature.

MAINTENANCE

1. Always disconnect the appliance and let it completely cool before any maintenance.
2. Use a vacuum cleaner to remove dust on grilles.
3. Clean the outside of the unit with a damp cloth and then dry it with a dry cloth. Never immerse the unit in water, nor let water drip into the unit.

Recycling (Disposal of the product at the end of its life)



The crossed-out wheeled bin symbol indicates that the item should be disposed of separately from household waste. The item should be handed in for recycling in accordance with local environmental regulations for waste disposal. By separating a marked item from household waste, you will help reduce the volume of waste sent to incinerators or land-fill and minimize any potential negative impact on human health and the environment.