

'Clima' Infrared Radiant & Convection Panel

Model S2030/1

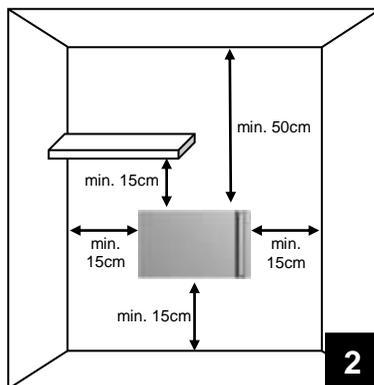
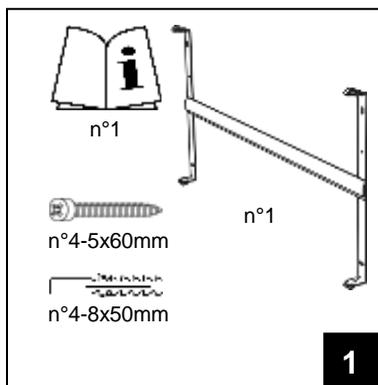
Operating and Instruction Manual



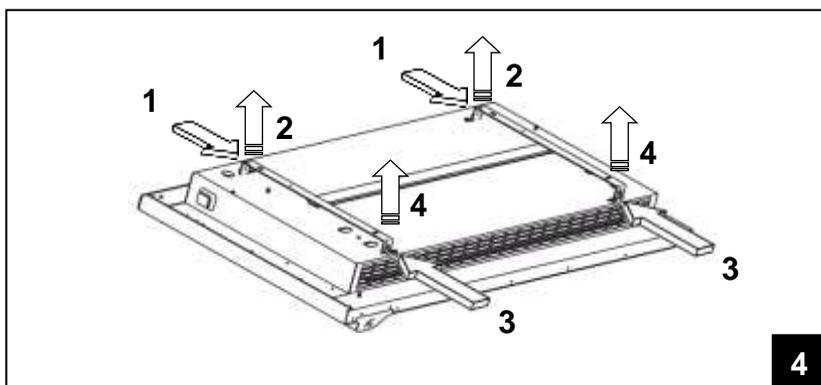
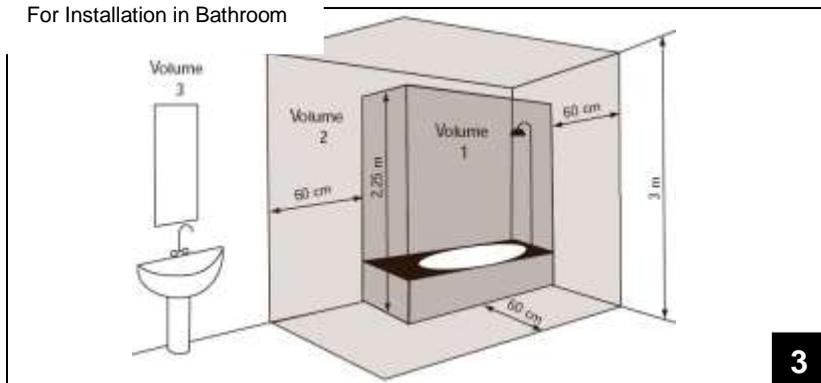
Please retain these instructions in a safe place for future reference.

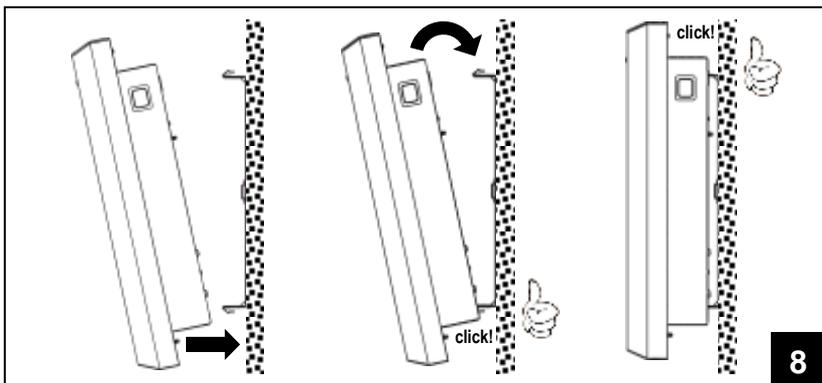
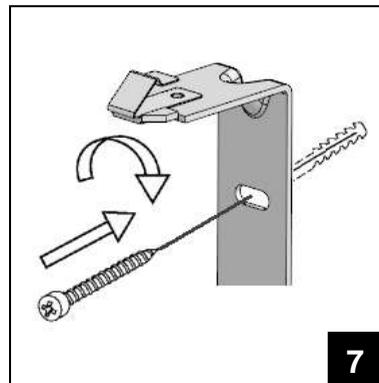
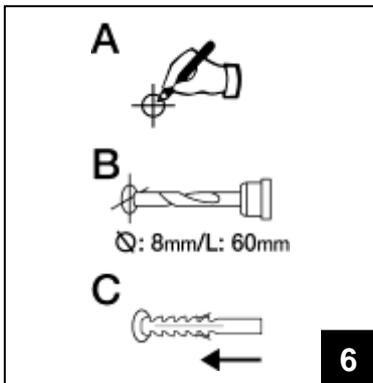
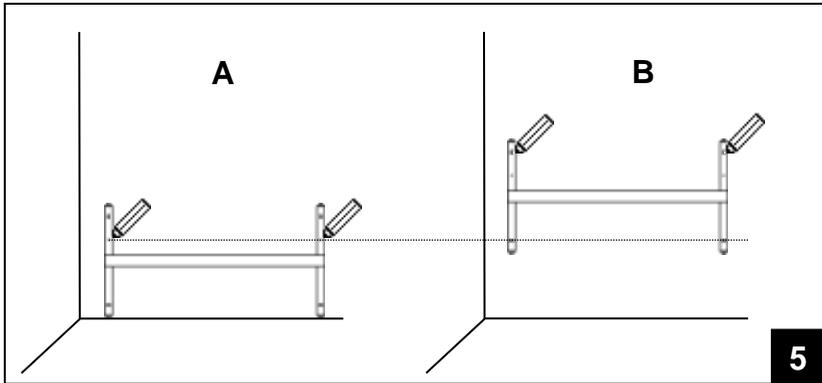
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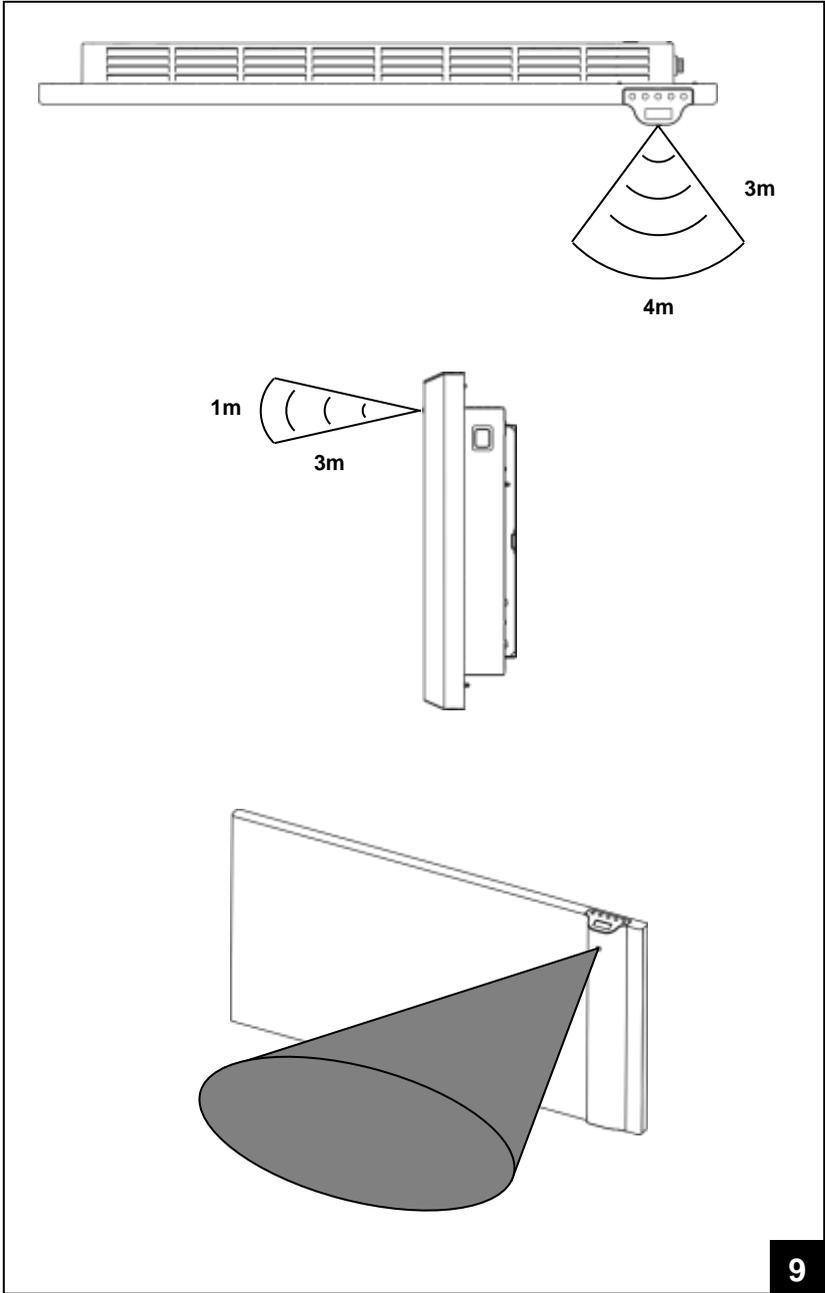
References:



For Installation in Bathroom







Before operating your new Clima heating panel 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.

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. Safety Information

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

When using any electrical appliance, safety precautions should always be observed.

Read these instructions carefully, and retain for future reference.

When used by, or near, young children or infirm persons, supervision is necessary.

Young children should be supervised to ensure that they do not play with the appliance.

- Use this appliance only with the voltage(s) specified on rating label.
- Do **NOT** use this appliance other than for its intended use.
- Do **NOT** touch hot surfaces or moving parts.
- Do **NOT** cover the grilles or place any object or material up against the unit, as this may block entry or exhaust of the airflow.
- Do **NOT** probe any opening to remove fluff. To ensure trouble free performance it is recommended that on a regular basis the unit be isolated from the power supply and a vacuum cleaner used remove dust and fluff from the inlet and outlet grilles.

Caution:

When the heater is operated ensure the heater is not obstructed in any way by furniture or drapes etc.

Ensure the heater can operate safely, should the heater switch on when the ambient temperature drops, or a timer activates the heater.

- Do **NOT** allow the supply cord to come into contact with heated surfaces during operation.
- Regulations require that electrical work be carried out by authorised persons. For your own safety and that of others, ensure this is done.
- If the supply cord becomes damaged, it must be replaced by a qualified person, in order to avoid any hazard.

Safety Cut-out:

All Serene Convection Heating Panels are fitted with a resettable thermal cut-out.

This safety device will automatically switch off the elements should the heater reach an abnormal temperature and turn the heater back on once it has cooled down.

Overheating is normally caused by blockage of the air vents or by the vents being covered.

NEVER COVER THE HEATING PANEL OR ANY OF THE VENTS.

To clean the vents use a vacuum cleaner and a damp cloth as necessary.

2. Your Clima

- 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.
- Refer to your dealer if something is broken or missing.

3. Safe positioning

- Only use the Clima in its horizontal position:
- Clima is fitted with a double electrical insulation circuit (class II) and therefore does not require an earth connection.
- Always observe the minimum distances from walls, furniture and/or objects, as indicated in picture 2.
- Clima is water resistant to **IP24**. It may therefore be used in bathrooms or other areas subject to humidity provided it is never installed within the perimeter of bathtubs or showers. **Refer to local electrical regulations**

4. Installation

- Remove the wall-mounting bracket fixed to the back of the heat panel, by releasing first the 2 upper springs and then the 2 lower springs as shown in **figure 4**.
- Rest the bracket on the floor to use it as a template to mark the points at which the two lower fixing holes are to be made **figure 5A**.
- Lift the bracket until its lower fixing points coincide with the marks made on the wall before, and use a pencil to mark the position of the two upper fixing points **figure 5B**.
- Drill the 4 holes at the points marked previously, and insert the plastic anchors **figure 6**.
- Fix the bracket to the wall using the 4 screws supplied **figure 7**.
- Hook the heater to the bracket starting with the 2 lower fixing points, and then click the 2 upper fixing points into position **figure 8**.

- ❑ Should you have to remove the heater from the bracket at a later stage, we recommend releasing the lower two fixing points first and then the upper fixings.

5. Electrical connections

- ❑ Clima is designed to be operated at a voltage of 230 -240V AC 50Hz.
- ❑ Clima is supplied with a cable for installation

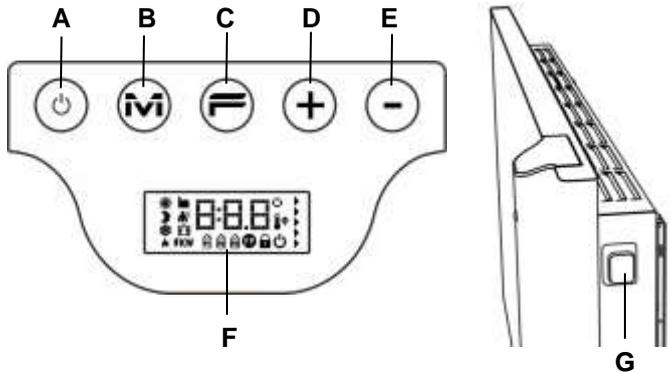
Connect to the mains power supply using a 3-wire cable (Brown=Live, Blue=Neutral, Black=Pilot wire) and a connection box as required. In bathrooms, kitchens or other humid areas, install the connection terminal at least 25cm off the floor.

- ❑ Do not connect the appliance to the earth circuit.

6. Using Clima

6.1 Description of controls

- A – Switch on/Stand-by
- B – Operating mode
- C – Special functions
- D – Increase / Activate
- E – Decrease / Deactivate
- F – Display
- G – Main switch



6.2 Operating

6.2.1 Switching on the screen

If the screen is not switched on, push any key to make it light up.
The screen lights up and stays on for 30 seconds after the last time any key is pushed.



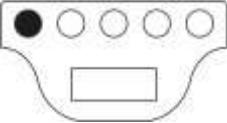
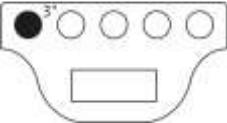
When the screen is switched off, the first time any key is pushed the screen lights up without activating the function controlled by the key pushed.

6.2.2 Switching the radiator on and off

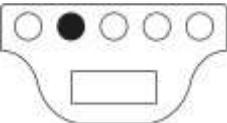
The power supply to the heater is controlled by a two-pole electromechanical switch (G) located on the right side of the radiator. When this switch is used the power supply to the electronic board is also switched off

and, as a result, all the parameters saved are lost after about 30 minutes, and the default settings are reinstated.

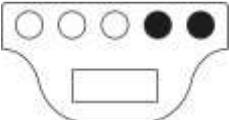
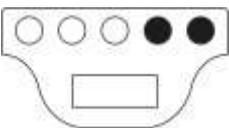
We recommend only using this switch if the heater is not to be used for a long period of time, and to rather use the Switch on / Stand by button (A) for switching off for short periods, in order to avoid losing the settings saved.

<p>When the heater is switched on using the main switch on its side, the display lights up and the stand-by symbol is displayed.</p>		
<p>To switch on the heater, push the Switch on / Stand-by key.</p> 		<p>The heater always comes on in comfort mode. If the radiator is new or the power supply has been off for more than 30 minutes, the comfort temperature is at the default value of 19°C.</p>
<p>To switch off the heater, hold down the Switch on / Stand-by key for at least 3 seconds.</p> 		<p>Switching the heater off using the rocking switch on its side for more than 30 minutes results in the loss of all data saved (date, time, temperature setting, etc.).</p>

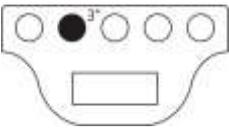
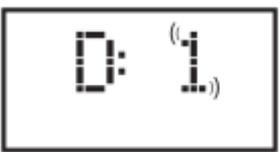
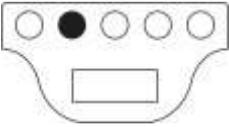
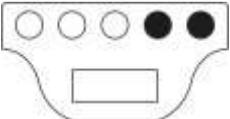
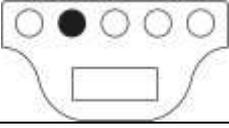
6.2.3 Selecting the operating mode

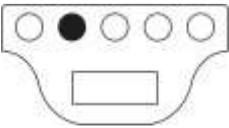
<p>Pressing the "M" key repeatedly allows you to select the operating mode you require.</p> 		<p>The operating modes are activated in the following order:</p>  <p>Once 30" has elapsed since the "M" key was last pushed, the operating mode activation sequence begins from the beginning again, to make it quicker to switch from any mode to Comfort mode.</p>
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Icon	Description	When used
	Comfort	The heater works to maintain the comfort temperature set.
	Eco	If you are away for short periods (from 2 to 48 hours) or you are sleeping. The heater maintains the eco temperature set and saves energy.
	Anti-freeze	If away for long periods (more than 48 hours).The temperature is automatically set at 7±3°C and cannot be changed .

<p>The preset comfort temperature is 19,0°C and can be changed using the "+" or "-" keys.</p> 		<p>If the comfort temperature is set at a value lower than the eco temperature, the latter is automatically reset at the comfort value - 0,5°C.</p>
<p>The preset eco temperature is 15,5°C and can be changed using the "+" or "-" keys.</p> 		<p>The recommended difference between the comfort and eco temperature values is 3,5°C. If the difference set differs from the suggested value, the eco symbol changes as follows:</p>  <p>The maximum value that can be set for the eco temperature is equal to the comfort temperature value - 0,5°C.</p>
<p>If the ambient temperature is lower than the temperature required and displayed, the heating indicator switches ON, on the display .</p>		

6.2.5 Setting the day and time

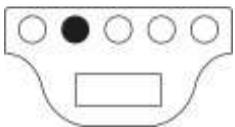
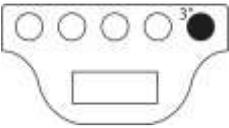
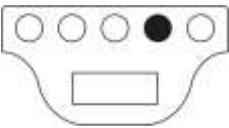
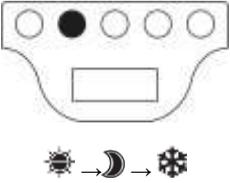
<p>The day and time are set to be able to use the 3 preset programmes, and this can be done by holding down the mode key.</p> 		<p>The day flashes the day to be set (1 = Monday). To edit it, push the "+" or "-" keys.</p> 
<p>Push the mode key to confirm the day set and move on to setting the time.</p> 		<p>The display flashes the hour to be set. To edit it, push the "+" or "-" keys.</p> 
<p>Push the mode key to confirm the hour set and move on to setting the minutes.</p> 		<p>The display flashes the minutes to be set. To edit it, push the "+" or "-" keys.</p> 

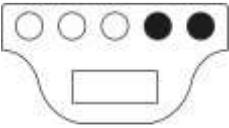
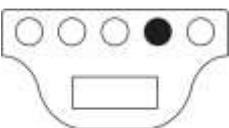
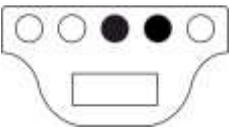
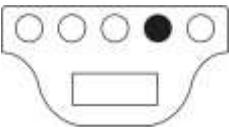
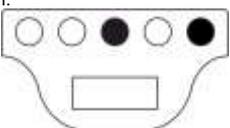
<p>Push the mode key to confirm the minutes set and conclude the setting operation.</p> 		<p>The system will go back to the operating mode activated when setting was started.</p> <p>If you try to activate a preset programme without having saved the date and time, this setting procedure will be activated automatically.</p>
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6.2.6 Customising P1 Program

Program P1 may be modified to suit the user's needs. Modification of P1 gives the user the opportunity to set the wished ambient temperature, choosing among Comfort, ECO or Frost Free, for every hour of the day and for the whole week.

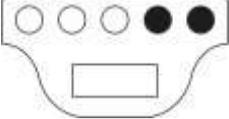
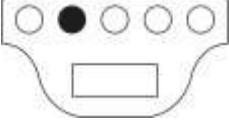
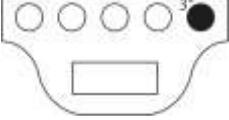
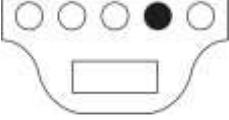
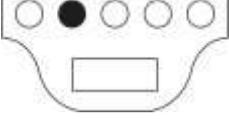
Please refer to paragraph 6.2.4 in order to set different levels of temperature to each working Mode. Each displayed hour of the day, shows the temperature level of P1 Program currently set. In case of first use of the radiator, the set P1 Program profile is the one indicated in Paragraph 6.2.3.1. In order to display or modify P1 Program, please proceed as follows:

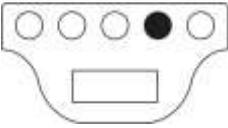
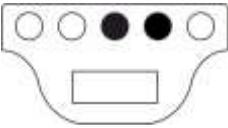
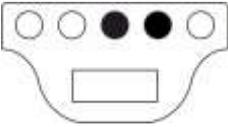
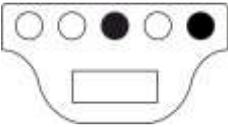
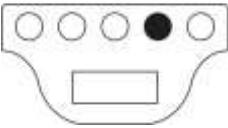
<p>Press "M" to select P1 Program.</p> 		<p>In case Time has not been set previously (brand-new product, or lack of power connection longer than 30 min.) the time regulation procedure will be activated automatically (refer to paragraph 6.2.5)</p>
<p>To display P1 Program hold button "-" for 3 seconds.</p> 		<p>The first day to see/modify is now displayed (1= Monday)</p>
<p>Press "+" button to enter the first hour to see/modify.</p> 		<p>Press "M" button to choose the wished temperature level among Comfort, Eco or Frost Free:</p>  <p>The displayed temperature once you've selected a specific hour of the day, is the one currently set on the P1 Program.</p>

<p>Use “+” and “-“ buttons to enter each hour of day 1 and see/modify the working temperature of each of them.</p> 		<p>The hour displayed always indicates the starting point. For example: when H 23 is displayed the modification involves the period of time between 23:00 and 00:00.</p>
<p>Having modified the temperature for each of the 23 hours of Day 1, press further “+” button to enter the modification mode of Day 2.</p> 		<p>Press “+” button to display/modify the working temperature of each hour of Day 2, as describe for Day 1. You can set automatically the same program of Day 1 on Day 2 by holding the “F” button and pressing “+” button.</p>  <p>Note: you are allowed to copy and paste the same daily program ONLY WHEN the number of the day you wish to adjust is displayed (as showed in the picture), BUT NOT when the hour is displayed.</p>
<p>Once the last day (Day 7) has been set, press “+” button to end the program sequence.</p> 		<p>END will appear on the display. A further pression of “+” button will allow you to confirm the adjusted program.</p>
<p>“OK will appear on the display for 5 second, confirming that the Program sequence has been carried out successfully. System is now set to adjust the temperature according to the new adjustment of program P1.</p>		<p>Note: it is possible to exit any time from the program sequence, without displaying every hour until Day 7. To do so, just hold “F” button and press “-“ button.</p> 
<p>Note</p> <ul style="list-style-type: none"> - You can abort the display/modification sequence anytime, deleting any settings that have not been saved, just by pressing “Stand-By” button. - Restoring the default settings will delete every P1 Program previously created (see paragraph 6.3. - If no button is pressed within 90 sec. during the Program setting process, the result will be the cancellation of the display/modification procedure and will restore back the factory default settings. - During the programing process, the heating elements will automatically switch to Stand-by mode, and the heater does not heat. 		

EXAMPLE: HOW TO SET A CUSTOM PROGRAM

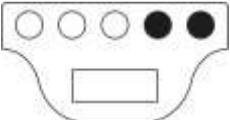
To program a brand-new **Clima**, and anticipate the change from ECO to COMFORT temperature one hour earlier (06:00 a.m. is the default factory settings), for each day from Monday to Friday.

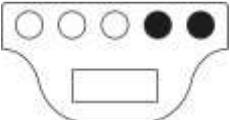
<p>Press "M" to select Program P1</p>		
<p>Set the current day of the week (first use of the radiator) using "+" or "-" button.</p>		
<p>Press "M" and set the current Hour (first use of the radiator) using "+" or "-" button.</p>		
<p>Press "M" and set the current Minutes (first use of the radiator) using "+" or "-" button.</p>		
<p>Press "M" to end the time setting procedure. System now gets back to Program P1.</p>		
<p>Hold "-" for 3 sec. To enter the display/modification of Day 1.</p>		
<p>Press "+" until you see H:05 on the display (that's the hour we want to modify the ECO temperature level to COMFORT).</p>		
<p>Press "M" twice to change the ECO temperature level to COMFORT.</p>		

<p>Press "+" button until you'll see D:2 appear on the display (Tuesday)</p>		
<p>To copy and paste the same program of Day 1 on Day 2, hold "F" and press "+" button. The system will automatically copy the program and display directly Day 3 (Wednesday).</p>		
<p>Repeat the procedure previously described until D:6 appears on the display.</p>		
<p>Since we don't want to modify Day 6 and 7, we can exit the Program settings mode, holding "F" and pressing "-" button. "END" will appear on the display.</p>		
<p>Press "+" to confirm the modification process. "OK" will be flashing on the display for 5 sec.</p>		

6.3 Special functions

<p>Repeatedly pushing the "F" key makes it possible to select the various special functions available in sequence.</p>		<p>To leave the special functions menu, simply wait 12 seconds, or push the "M" key to go back to viewing the operating mode.</p>
<p>To reinstate the default settings</p>		<p>To reinstate all the heater's parameters to the default settings set by the manufacturer hold at least for 3sec the "+" key down.</p> 

<p>Presence sensor (optional extra)</p> <p>This function allows the heater to pick up whether or not people are in the space, and automatically regulate the heating level, in order to optimise comfort and energy saving.</p> <p>For further details see paragraph 6.3.1.</p>		<p>Switching the function (ON) or (OFF) is done by pushing the “+” or “-” keys respectively.</p>  <p>Activation is indicated by the relevant icon that switches on, on the display </p>
<p>Window open sensor</p> <p>This function makes it possible to detect an open window and automatically activate the anti-freeze operating mode.</p> <p>For further details see paragraph 6.3.2.</p>		<p>Switching the function (ON) or (OFF) is done by pushing the “+” or “-” keys respectively.</p>  <p>Activation is indicated by the relevant icon that switches on, on the display </p>
<p>Daily consumption</p> <p>This function makes it possible to view the power the heater has consumed over the previous 24 hours.</p>		<p>If the consumption indication is flashing, this means that the data saved relates to a period of less than 24 hours.</p> <p>Please note: The display shows the estimated consumption, which may differ from that measured by specific meters, suitable for the purpose.</p>
<p>Weekly consumption</p> <p>This function makes it possible to view the power the radiator has consumed over the previous 7 days.</p>		<p>If the consumption indication is flashing, this means that the data saved relates to a period of less than 7 days.</p> <p>Please note: The display shows the estimated consumption, which may differ from that measured by specific meters, suitable for the purpose.</p>
<p>Displaying the ambient temperature</p>		<p>The display shows the ambient temperature measured by the radiator.</p>

<p>Alignment of ambient temperature</p> <p>This function is used to edit the ambient temperature measured by the radiator and used to manage heating power, if it needs to be corrected to compensate for reading errors due to things like being near to heat sources, or cold air draughts.</p>		<p>The display flashes the correction value to be applied. To edit it, push the "+" or "-" keys.</p>  <p>If, for example, the temperature set on the radiator is 19,2°C and the ambient temperature is measured at 19,5°C, align it by +0,3°C.</p> <p>Always wait at least 4 hours for the temperature to settle, before doing any alignment.</p>
<p>Remote control</p> <p>This function allows the heater to be controlled using external timers, piloted sockets with telephonic control, and similar devices.</p> <p>For further details see paragraph 6.3.3.</p>		<p>Switching the function (ON) or (OFF) is done by pushing the "+" or "-" keys respectively.</p>  <p>Warning: Activation is NOT indicated by any icon on the display.</p>

6.3.1 Presence sensor

This function allows Clima to pick up whether or not people are in the space, and automatically regulate the heating level, in order to optimise comfort and energy saving.

Thanks to this function, which can only be activated in Comfort mode, the radiator continuously monitors the room and, if no people are detected, it reduces the comfort temperature set as follows:

Period of absence	Reduction of the Comfort temperature	Indication on the display
60 min	1,0°C	<p>The presence sensor and comfort mode symbols flash together</p> 
90 min	2,0°C	
120 min	3,5°C	
38 hours	Anti-freeze activated 7±3°C	

The reduction in temperature always relates to the comfort temperature. If the heater is in Eco or Anti-freeze mode, no change in temperature to be maintained in the room will be observed.

Should someone be detected in the room for at least 10 consecutive minutes, the temperature is automatically returned to the comfort temperature set, without any reduction. The same happens if, while the temperature required is being reduced, due to an absence of people being detected in the room, the "M" key is pushed.

Important:

Correct operation of this function may depend on where the heater is positioned in the room. To choose the best installation position, bear in mind that the sensor detects movements within the area indicated in **figure 9**, and that no objects must be in its way. Presence detection is also more effective when people move in front of the sensor than when they move towards it.

6.3.2 Open window sensor

This function makes it possible to detect an open window and automatically activate the Anti-freeze operating mode.

If a sudden reduction in temperature is detected when the heater is operating normally, anti-freeze mode is activated automatically to reduce energy wastage. On the display the window and anti-freeze symbols flash together, while the symbol for the operating mode set by the user stays on.



Reinstating normal operation does not occur automatically, but must be activated by pushing the "M" key.

Important:

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.

6.3.3 Remote control

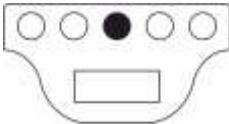
This function allows **Clima** to be controlled using external timers, piloted sockets with telephonic control, and similar devices. When the function is active, if the heaters' power supply is reinstated after being interrupted for more than 30 minutes, when it is switched on Stand-by mode is not set as normally happens, by Comfort mode starts immediately. The comfort temperature is as set before the power supply was interrupted. The (optional) presence sensor and open window sensor are deactivated. This means that the heater can be switched on without being in the room.

6.4 Utilities lock

Lock controls

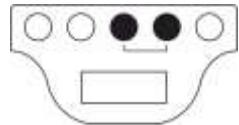
The heaters' controls can be locked to prevent settings being changed accidentally, or by unauthorised people.

To go to lock/unlock mode, hold the "F" key down.



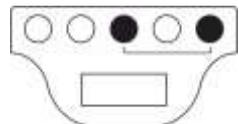
Once the display reads "LOC":

Hold the "F" key down and push the "+" key to lock the controls.



Activation is indicated by the relevant icon that switches on, on the display 

Hold the "F" key down and push the "-" key to unlock the controls.



Cont. below

Note: When this function is activated, in case the supply voltage returns after an interruption exceeding 30min, the operating mode set at the time of the interruption is recovered. If the operating mode was one of the three programs P1, P2 or P3 the frost free program is activated instead, because it is necessary to set the time and the day of the week before activating again a program.

7. Troubleshooting

Problem	Solution
Clima does not switch on.	Check that the power supply is on and that it is as indicated in the radiator's nameplate (e.g. 230 Vac 50 Hz), and that the main switch on the right side of the radiator is switched on (position "I").
Clima does not heat up.	Make sure that the operating mode is as required and, if using a preset programme, that you are not in a time period for which anti-freeze mode is set. If the ambient temperature is higher than that set, the radiator should not heat up. If in doubt, set Comfort mode and a required temperature much higher than the ambient temperature, to check that the radiator is working properly.
Clima stays hot.	Check that the temperature setting is not too high or that there are no draughts on the radiator, altering the ambient temperature measured.
Clima does not heat up enough.	Check that the temperature setting is not too low, that the radiator is only heating the room in which it is installed (keep the doors closed) and that the mains power supply is correct.
Clima heats in Eco mode.	The radiator may heat up to reach / maintain the eco temperature. This is not abnormal operation.
The heaters surface is very hot.	It is normal for the surface to be hot when working. The maximum values comply with the limits laid down by applicable safety norms. If the radiator is always very hot, it may be undersized for the space in which it is used, or may be affected by draughts.
The temperature in the room differs from the temperature set.	Having waited for the ambient temperature to stabilise for at least 4 hours, you may have to compensate for any differences between the temperature indicated by the radiator and that measured in the room. To do this see the contents of paragraph 6.3 on the section "Aligning the outside temperature".
The heater gives off an unpleasant odour.	When the heater is new, it is possible that when it begins working for the first time an unpleasant odour may be sensed. This is due to residue from the manufacturing process. Heaters that have already been used may give off unpleasant odours if they are not used for a long time and/or if they are used in polluted spaces with poor quality air.

8. Maintenance

- Clima** does not require any special maintenance.
- Clean the product, especially the heating panel, with a damp cloth once every 6 months or so.
- When replacing the power cable, use a 2x1,00mm² or 3x1,00mm² H05V2V2-F HAR type, depending on the version. This operation, for cables both with and without plugs, 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.

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