

USER'S GUIDE

CLIMA STAR
silicium technology



SILICIUM ONE - WIFI

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1. INTRODUCTION

Congratulations on your purchase of your SILICIUM ONE low consumption heater!!

The product you have just purchased has undergone numerous tests and inspections to guarantee the highest quality.

We hope it will give you entire satisfaction.

Please, read carefully this user's guide before installing your device.

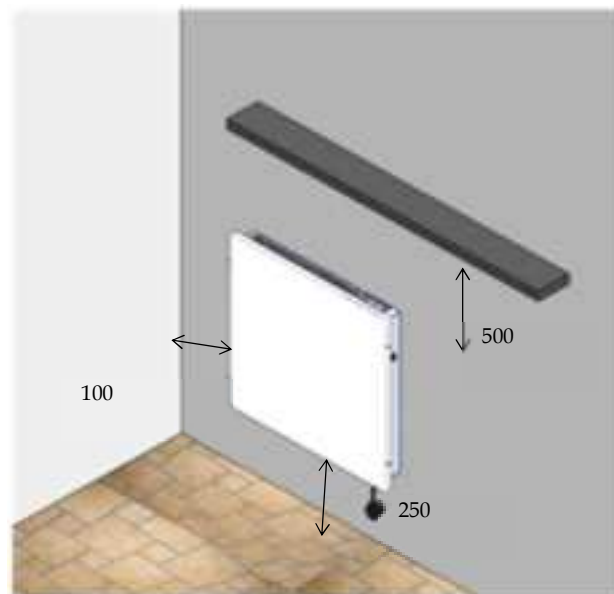
- Make sure the supply voltage corresponds with that on the nameplate (located on the left side of the device).
- The Schuko plug must be connected to a compatible Schuko socket.
- Do not place the device right under an electrical outlet.
- If the supply cord is damaged, it must be replaced by the manufacturer, its after sales service or any other qualified person.
- Not intended for children under the age of 3 unless duly supervised.
- Children over 3 and below the age of 8 must only turn on/off the device whenever it has been duly placed or installed, has been given supervision or instructions concerning use of the appliance. Children from 3 to 8 must not plug, regulate and clean the device, nor carry out any maintenance activity.
- Not intended for use by persons (including children over 8) 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. Children must not play with the device. Cleaning and maintenance must not be carried out by children without prior supervision.
- WARNING:** some parts of this device may overheat and cause burns. Pay special attention when children and vulnerable people are around.



To avoid possible overheating, do not cover the device.

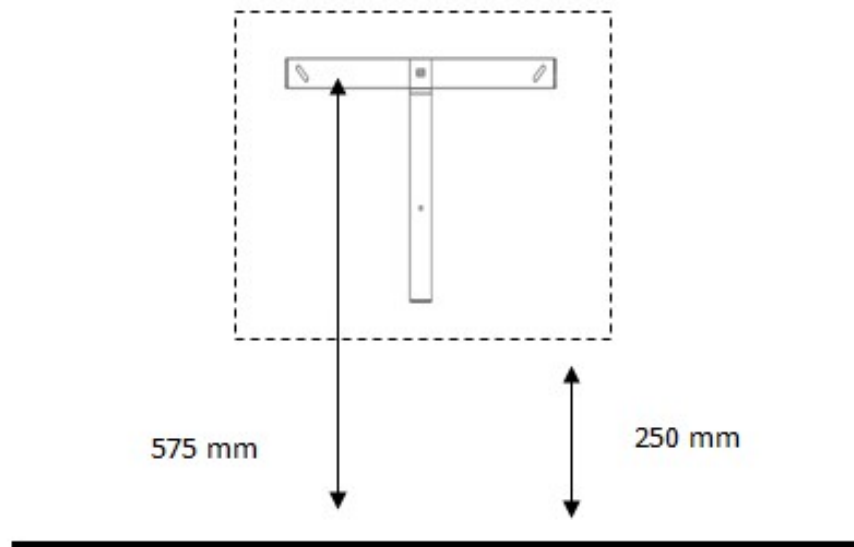
2. INSTALLATION INSTRUCTIONS

- The device includes a mounting kit with the required bolting: plugs and 6mm screws, and the wall support.
- Plugs supplied with the mounting kit are not suitable for plaster walls. These walls require specific plugs.
- Recommended clearances required to maintain optimum performance are indicated on the picture



- Once decided the location to install the device, remove the packaging and extract the device and its mounting kit.

- Fix the radiator to the wall as detailed below



⚠ Check dimensions and level before drilling.

⚠ Dimensions in mm.

3. STARTING AND SETTING UP

3.1-SETTING UP THE WIFI CENTRAL UNIT

It is necessary a Smartbox to control the heater using web or Smartphone apps. The Smartbox communicates the heater through the internet using the home router.

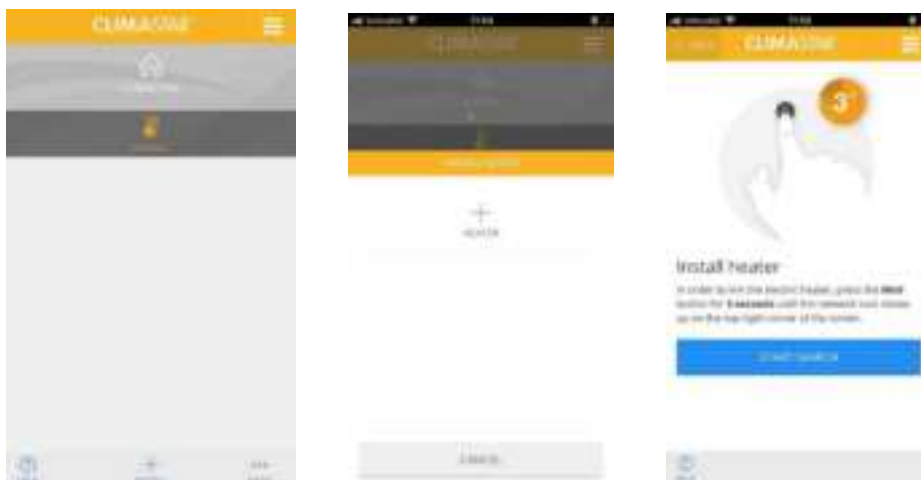
- 1- Register on the web app: avantwifi.climastar.es to connect via your computer or download the CLIMASTAR WIFI app from Google PlayStore or Apple AppStore and register.
- 2- The smartbox communicates by radiofrequency to the heaters and it is connected to the home router using WIFI. Do as follows:

Enter your account to set home data. Now follow the steps shown on the screen

3.2 - HOW TO LINK HEATERS TO THE WIFI CENTRAL UNIT

Only if the heaters are linked to the WIFI central unit can they be controlled by the APPs.

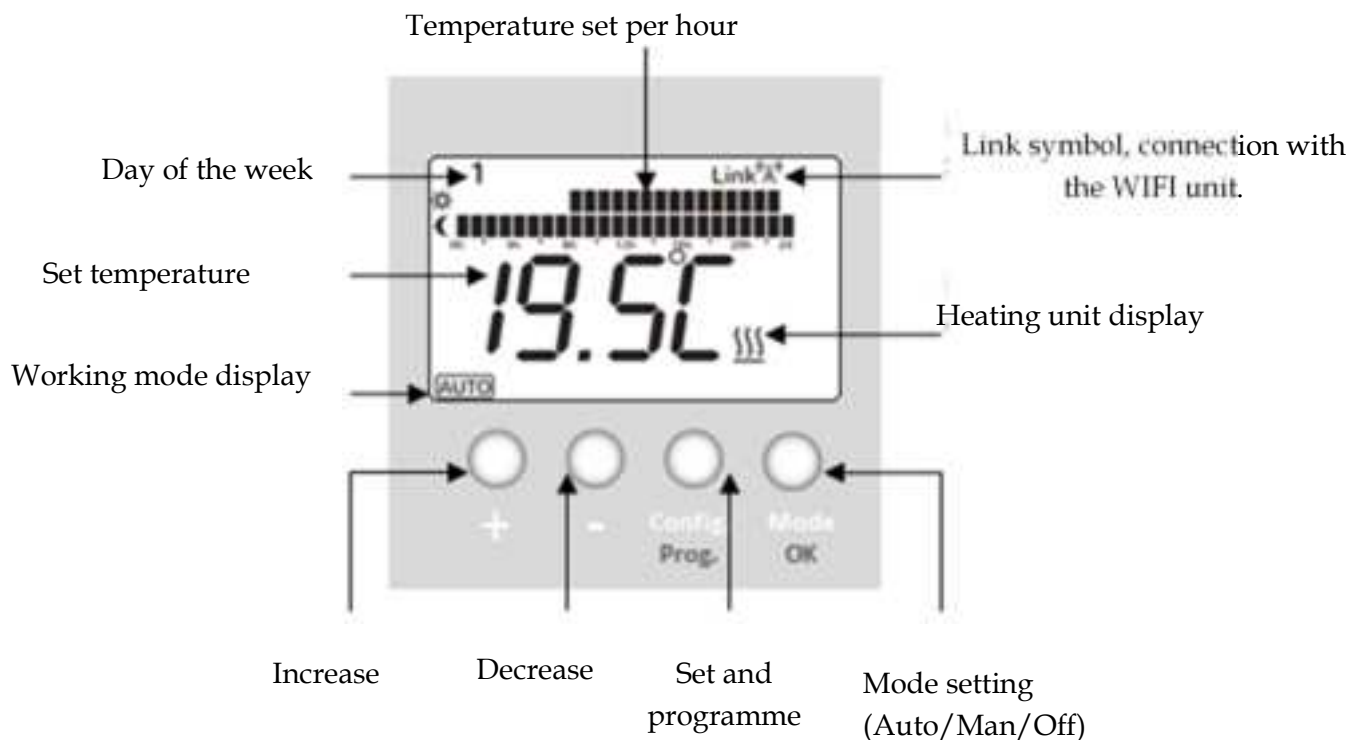
To link a heater, first enter the App, click "INSTALL" and follow the assistant:



Once linked, an antenna with the Word "Link" will appear right-side up. The heater is ready to be controlled by the APPs.

3.3- SCREEN DISPLAY

To turn on the device, connect the power cable to a mains power outlet and click the switch on the right. The display illuminates.



3.4- SETTING UP THE HEATER

First you have to set the level of maximum power that the heater will develop by connecting the appropriate switches placed on the right lateral side of the heater.

- By selecting the round shape Switch in I position we will connect 500 W:



- After this, by selecting the switch at the bottom we will have 1000W.



- After this, by selecting the middle switch to get 1500W



- If you select after this, the first switch below the round shape one, we will have all the switchers connected, this will provide 2000 W.



Once the heater power is decided, the user can set up the heater through the Web App (computer) or the mobile App in a very easy and intuitive way.

In case there is no internet access, you can also set up the heater. This can be done directly on the keyboard placed on the upper side of the device. To do so, follow these steps:

Operating modes

3 operating modes:

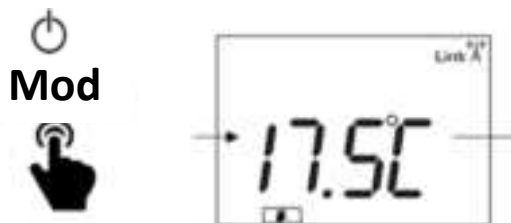
- **Auto:** the device works on a programmed time schedule based on 3 temperatures: comfort, economy and frost protection. Bars on the screen show the programmed temperature per hour.
- **Manual:** Comfort temperature is fixed as per the user's personal settings.
- **OFF.** The device is OFF.

Press  / Mod to change the operation mode:



Manual mode

- Select the manual mode

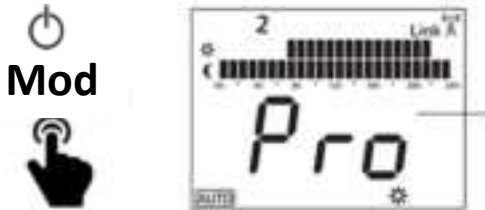


- Select the desired temperature by clicking +/-.



Automatic mode

- Select the automatic mode

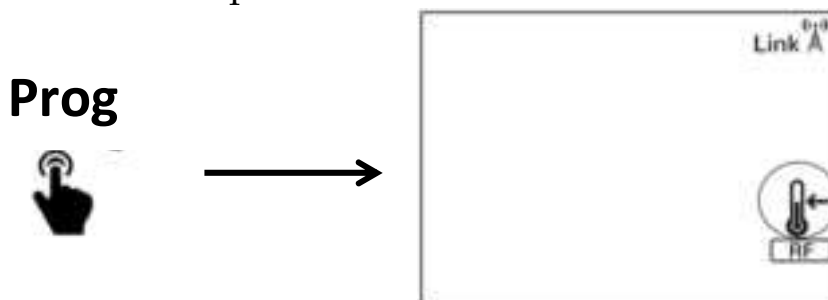


- Temperature settings:

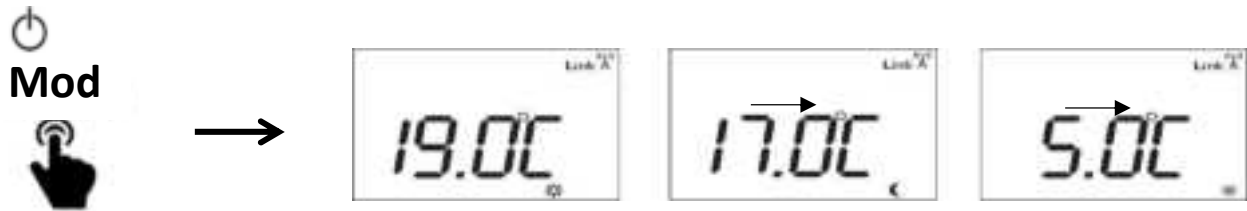
In the automatic mode, the set temperatures automatically change a per the user's settings. The user assigns one of the 3 temperature options below per hour:

- Comfort, ☼ , set by the user being at home, maximum comfort.
- Saving or economy, ☾ , used at night or in short periods of absence.
- Frost protection or ❄ minimum, used to set a minimum temperature when absent.

How to set the temperature values:



Select the temperature to set: comfort, economy or frost.



How to modify the selected temperature (e.g. comfort):



Do not forget to confirm and validate:

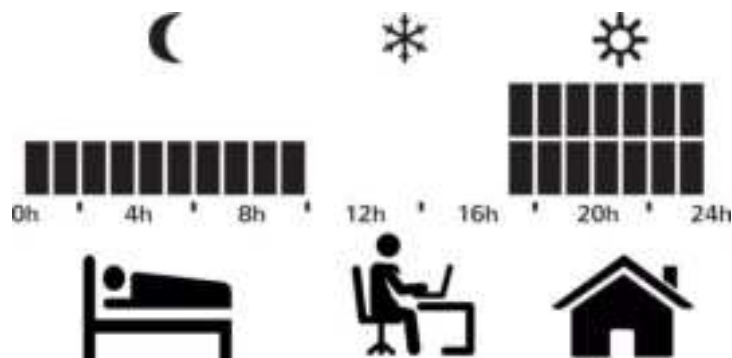
Prog



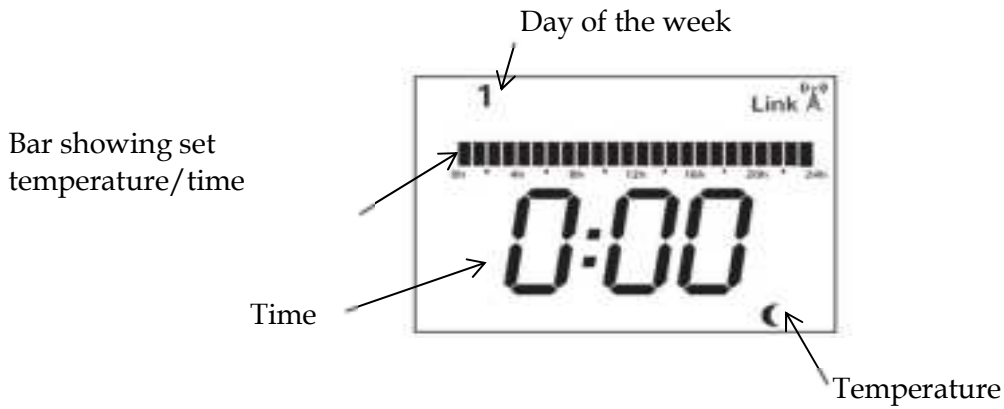
- Time schedule modification

Each radiator can be programmed hour per hour at any of the 3 available temperatures: comfort, eco and frost protection.

E.g.



IMPORTANT: Schedule starts on day 1 of the week at midnight.



Start to programme



Select the temperature at midnight, 00.00



Select the time



Select the temperature and the following hour



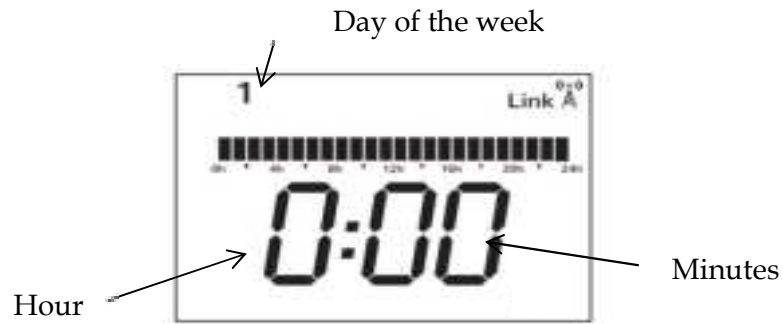
And so on until you have programmed each hour and each day of the week.

Prog



Do not forget to confirm and validate. Exit and set real date and time on the heater.

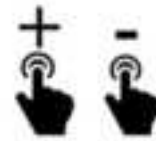
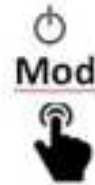
If the device is already connected to internet and the wifi Gateway, the time is automatically set. If not, proceed as follows to set the time:



Change the day of the week



Change the time



Change the minutes



Prog



Exit

- Temporary manual mode operation

Being on the automatic mode, the user can increase or decrease the temperature; said modification will be set up until next change in programme.

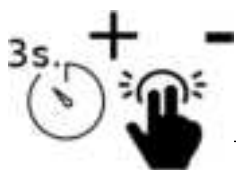


Modify manually the temperature in Auto mode.

3.5- KEY LOCK FUNCTION



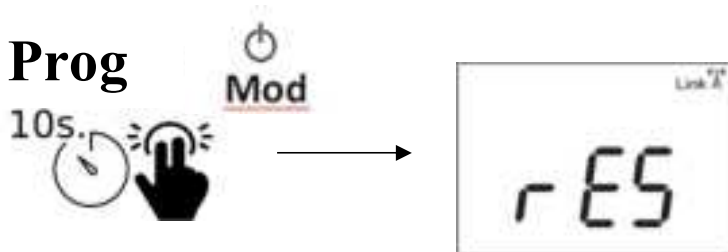
“LOCK” word displays on the screen.



Unlock

3.6- RESET

- How to reset the heater



Do not forget to press “MOD” to confirm the reset

- How to reset the smartbox



- How to reset the USB smartbox



4. CLEANING AND MAINTENANCE

- Keep the room clean to avoid possible spots on the walls due to convection.
- At the beginning of the year's heating season, vacuum any dust that has accumulated in the inner heating element while the radiator has been off for long periods during warmer weather.
- The device can be washed with a moistened cloth or with any washing conventional product.

5. TECHNICAL SPECIFICATIONS

DK1-WIR			
Power: (W)	500 - 1000 - 1500 - 2000 W		
Dimensions: (mm)	H. 500 x W. 600 x D. 80		
Weight: (Kg)	14		
Voltage:	230v ~AC	Class:	II
Frequency:	50 Hz	IP:	24
Ceramic component:	DUAL KHERR		
External Housing:	Powder coated steel structure		
Thermostat	Temperature range from 0 to 30°C		
Safety thermostat	Bimetallic, Automatic, Rated Temperature: 90 ±5°C, Reset Temperature: 65 ±5°C		

Heat output		500 - 1000 - 1500 - 2000 W	
Nominal heat output	P_{nom}	2,0 kW	
Minimum heat output (indicative)	P_{min}	0,5 kW	
Maximum continuous heat output	$P_{max,c}$	2,0 kW	
Auxiliary electricity consumption		500 - 1000 - 1500 - 2000 W	
At nominal heat output	eI_{nom}	N.A.	
At minimum heat output	eI_{min}	N.A.	
In standby mode	eI_{sa}	0,000 kW	
Type of heat input (select one)			
manual heat charge control, with integrated thermostat			no
manual heat charge control with room and/or outdoor temperature feedback			no
electronic heat charge control with room and/or outdoor temperature feedback			yes
fan assisted heat output			no
Type of heat output/room temperature control			
single stage heat output and no room temperature control			no
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			yes
with adaptive start control			yes
with working time limitation			yes
with black bulb sensor			no

CLIMASTAR GLOBAL COMPANY, S.L
 Carretera AS-266 Oviedo-Porceyo, Km 7.
 33192 Pruvia (Llanera) - Asturias - Spain

6. FAQs

PROBLEM	PROBABLE CAUSE	SOLUTION
The heater does not warm up	The heater is in energy saving mode	Increase the temperature in the heater if you need more room temperature.
The room does not reach the desired temperature	Incorrect setting of the set temperature	Check the set temperature on the display to verify it is the desired temperature.
	Improper sizing, the heater is too small for the room	The power rating of the heater is not adequate for the place in which it has been installed. Select a larger heater.
	Large Height	Make sure the heater is installed at the correct mentioned height or increase the set temperature to compensate the probe reading.
	Lower and upper grids are obstructed.	Do not place anything on top or below the radiator.
The heater does not operate	Set temperature below the room temperature	Rise the radiator's set temperature until it is 1 degree above the room temperature.
	Control panel switch and protection down	Check that the automatic control is not down.
		Make sure the installation is correct and that there are independent lines for the heating system with a 2.5 mm ² cable gauge and a maximum power of 3500 w
	The switch at the side of the heater is turned OFF	Set the switch at the right side of the heater to position "I".
The set programme is in an OFF period.	Check that the set program is correct for the time period and change if necessary or put in manual mode and override.	
Appearance of stains on the wall just above the radiator	Heater located at a very low height	The minimum height from the floor to the radiator's lower part must be at least 25 cm.
	Dust accumulation in the lower grid.	Vacuum any dust and loose carpet fibres below the heater.
	Type of painting on the wall.	Paints with a high content in rutile are likely to darken.
No response from buttons	Control panel has been locked to prevent pressing of buttons	Press both + and - for 3 seconds, check 3.5.
Problems setting the WiFi gateway	Orange and green lights flash every 5 seconds.	No server communication, check the Internet connection
	Red light flashes	Wifi network is not well set
	Red and orange lights flash quickly	The smartbox is not connected to the router
	Orange and green lights flash quickly.	The router does not assign a valid IP. Check the Internet connection.
The heaters do not communicate with the WiFi gateway	The heaters are not linked to the WiFi gateway.	Make sure the Link icon is fixed; if not, try linking again.
	Distance exceeding 30 m and 2-3 walls.	First link the nearest heaters, since each heater acts as signal repeater.
	"Link" icon flashes.	Check the Wifi gateway

7. GUARANTEE

CLIMASTAR guarantees that in the moment of its purchase the product is free of any defect in the materials and in the work force (limited

guarantee). CLIMASTAR offers a commercial and voluntary guarantee; conditions included are similar to those of the legal guarantee,

being CLIMASTAR responsible for the non-conformities arisen in the terms and conditions mentioned below. Moreover, CLIMASTAR

offers a total warranty of 2 years in the spare parts.

- CLIMASTAR is responsible for the non-conformities arisen within the 6 months following the date of sale. If the non-conformity arises after those 6 months, the user shall prove that the non-conformity already existed when delivered. The user must inform CLIMASTAR of said non-conformity in a period inferior to two months.

- To obtain the service under the terms of this warranty it is important to detail the device's purchasing date because the warranty period starts with the purchase invoice of the system customer. However, in no case this warranty will be liable for defects that may arise after thirty-six months from the manufacture date.

- This warranty is strictly limited to the repairing in the factory of the manufacturing defect part or parts of the device, or to the complete replacement of the system when, in the opinion of the manufacturer, it is not possible or is uneconomical. This does not include any other type of expenditure as an installation, assembly, disassembly or transport.

- This warranty does not cover defects and / or malfunction caused by accidents, misuse, negligence, wears, breakage, an incorrect installation and poor electricity supply to the system. This warranty is also excluded if it is used with another purpose other than heating, for an alteration, modification, tampering or unauthorized repairing of the product, and by other different causes beyond the manufacturer's reach after the delivery of the product.

- The warranty does not cover the costs and expenses incurred to access the device or installation, such as in hidden locations, heights, non-practicable ceilings. Neither does it include the costs derived from removing or replacing any structural element to access the device or the installation.

- No heating system will be returned to CLIMASTAR without a previous codified and official MERCHANDISE RETURN AUTHORIZATION. CLIMASTAR assumes no liability for any equipment that is returned without the previously mentioned MERCHANDISE RETURN AUTHORIZATION.

- CLIMASTAR and/or its agents have the right to decide whether to replace the system or to repair the damaged components. None of these options will extend the original warranty period.

- Any reparation must be done by the Technical Service and authorized by the manufacturer and/or any of its agents; any manipulation done by unauthorized personal will void this warranty. In case of substitution of the device the buyer must go to the selling centre which will be in charge of receiving the system.

- RESPONSIBILITY LIMITATION: CLIMASTAR as a manufacturer is not responsible for any personal or material damage that directly or indirectly might result of a non-proper installation, from an improper handling or neither for the lack of technical qualified staff, nor for the installation costs which are expressly excluded from this warranty.

- None of the present conditions may be extended or modified without the express consent of CLIMASTAR.



CLIMASTAR GLOBAL COMPANY S.L.

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www.climastar.es



CARDBOARD PACKAGING CAN BE RECYCLED



DO NOT PLACE THE ELECTRICAL ITEM IN
THE GENERAL WASTE (IT SHOULD BE TAKEN
TO A LOCAL RECYCLING CENTRE).