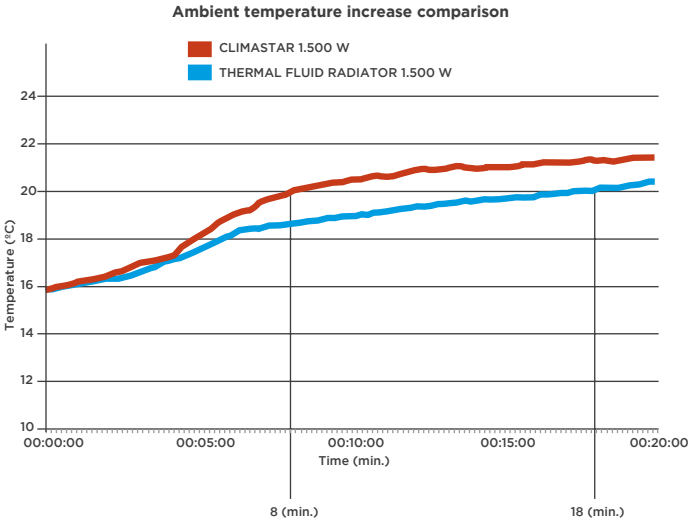
DUAL-KHERR means Energy Saving

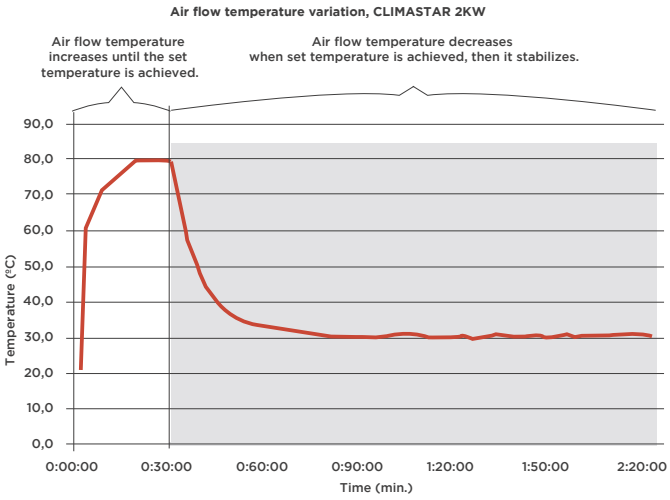
Key differences with other technologies

1 DUAL KHERR allows a quick room temperature increase:

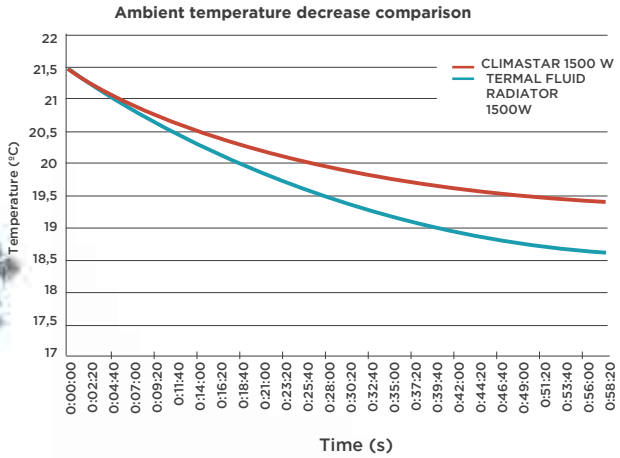


3 DUAL KHERR does not reduce the humidity in the air:

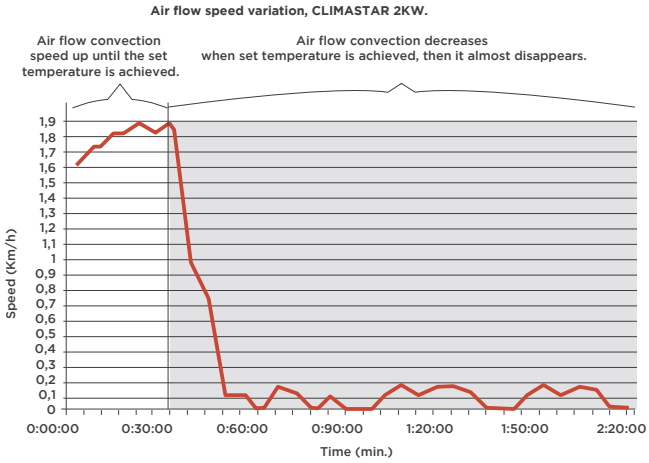
In normal working conditions, once the set temperature is achieved. Air flow temperature reduces to 30 and does not dehumidify the air in the room.



2 DUAL KHERR allows a very slow room temperature decrease:



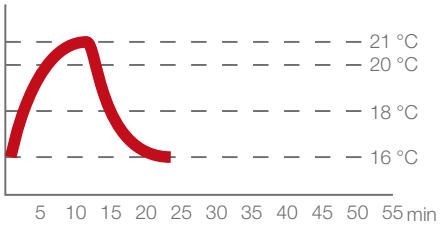
4 DUAL KHERR reduces the convection air flow and increases radiation for a better comfort:



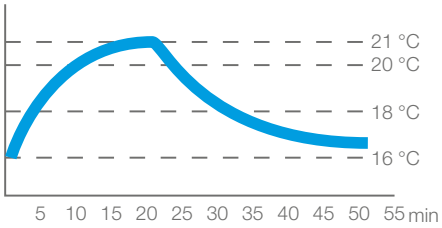
DUAL-KHERR means Energy Saving

With **DUAL-KHERR** technology , our inertia radiators reach the room temperature quicker and maintain the heat for longer than other radiators.

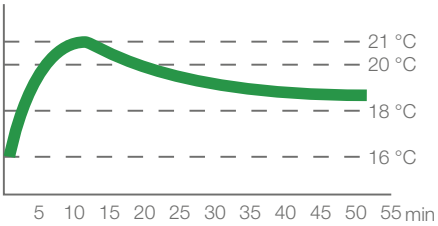
Under same conditions: room size, power... How different types of radiators heat a room is shown below:



A standard convector will heat up the room very quick but when disconnected, that heat will also disappear very fast.



An oil radiator when disconnected will maintain the heat in the room longer, but also to heat up the room will take much longer.



Inertia radiators will heat up the room very quickly and the silicon technology incorporated in those radiators will maintain the room temperature for a very long period of time when disconnected.

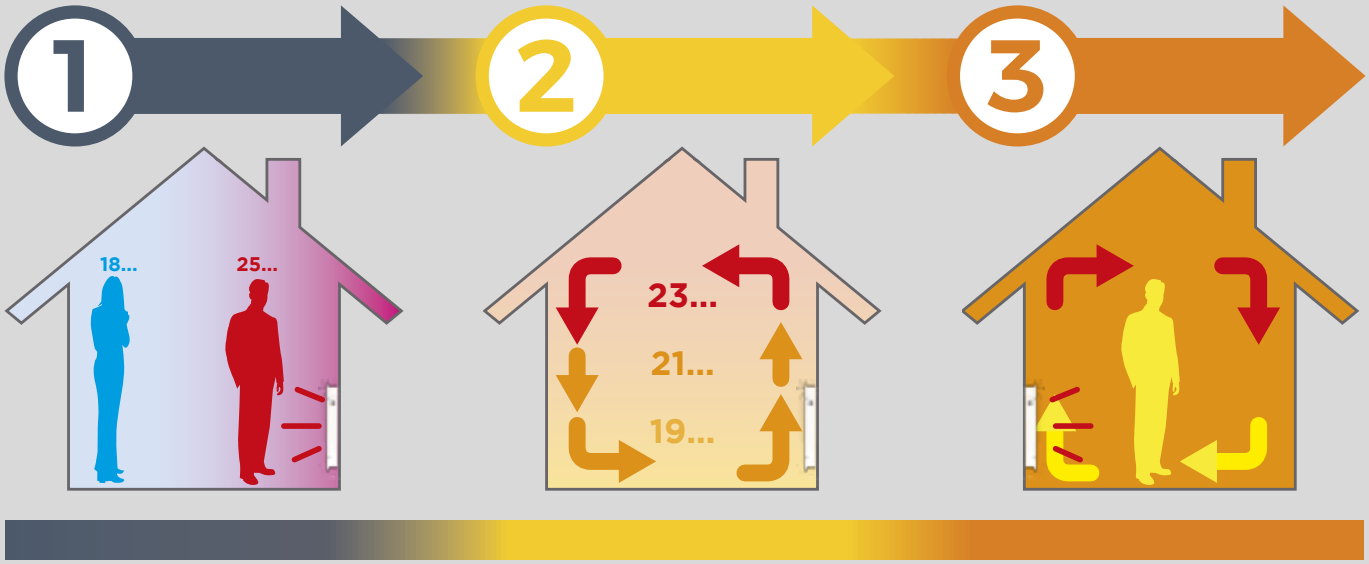


Illustration 1

shows a room where heat is transmitted mainly by radiation. It will take a long time or a large heater to reach a comfortable temperature.

Illustration 2

shows a room where heat transfer is by convection. Temperature stratification will appear and in order to get comfort heat it is necessary to overheat the higher part of the room

Illustration 3

shows a room where heat is transmitted by radiation and convection

DUAL-KHERR stone inertia front panel minimizes stratification avoiding overheat and reducing the final energy consumption.

CLIMASTAR ranges incorporate a cooling detector to increase efficiency and reduce consumption.

When the radiator is working and a door or window is opened, the device will stop its performance automatically to save energy.

When the appliance is working and it detects a decrease in temperature of 3 °C for a period of 5 min.the OPEN WINDOW FUNCTION activates and the radiator stops.

If temperature stabilizes for 15 minutes the radiator starts operating again.

CLIMASTAR incorporates very intuitive and user friendly interfaces in their ranges to ease accessibility.

CLIMASTAR ranges control keyboards are intuitive and very easy to use. All our solutions can be easily handled acting directly on to them.

External wireless control thermostats ease the management of the house comfort.

The integration of WIFI interfaces to manage CLIMASTAR new product ranges is the definite key to get the best heat comfort and reduce energy consumption.

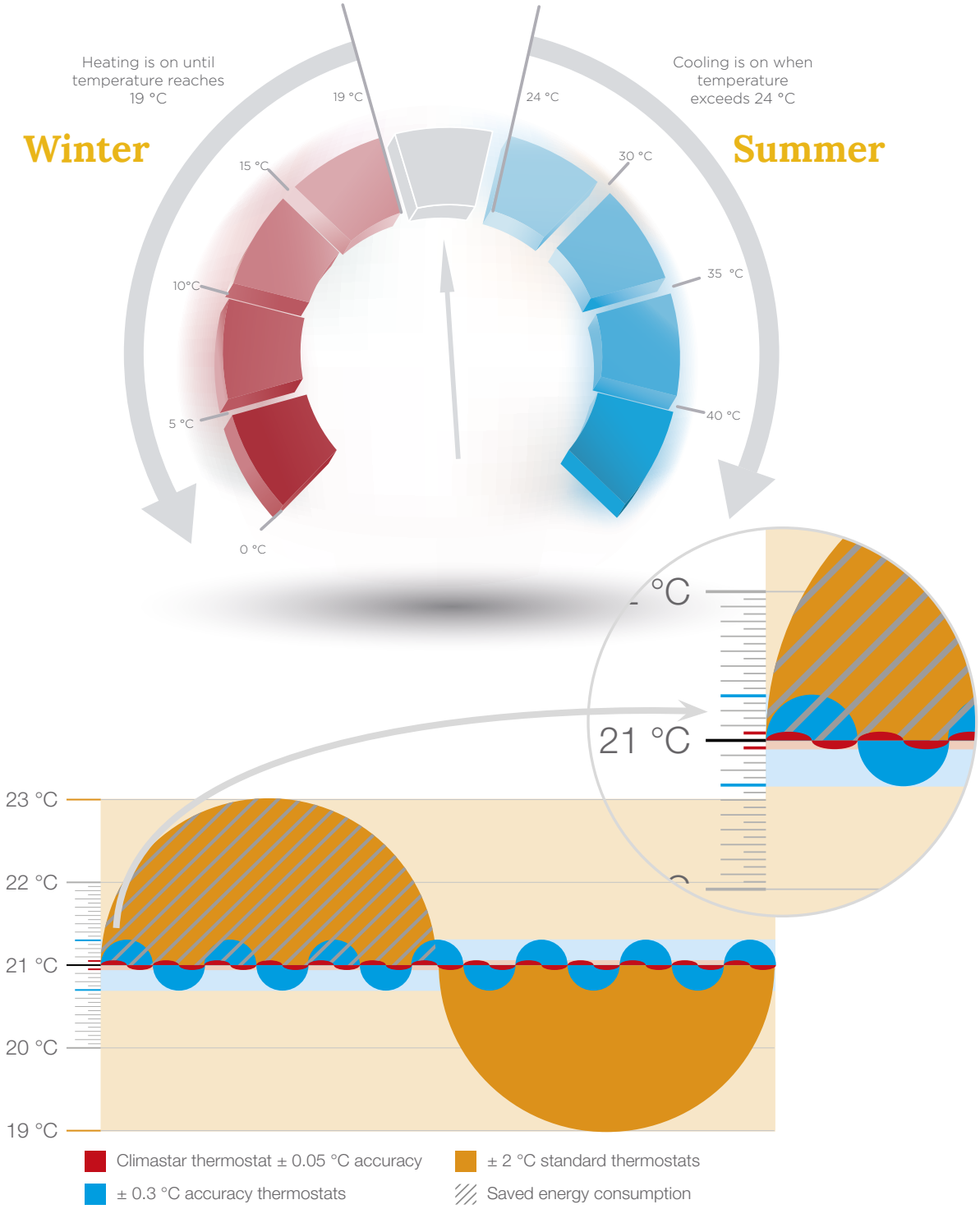
All at your fingertips.

CLIMASTAR incorporate the most accurate temperature control to **increase efficiency** and **reduce consumption.**

High-Precision Thermostat

Heat requirements depend on the metabolism of each person. Children and elderly need more heating. The standard recommends heat homes at 19 degrees. In one bedroom 16 degrees is a temperature which allows a better sleep.

Keep in mind that 1 degree extra temperature means between 5% to 10% extra in your energy bill.
(Source: European Commission/Climate Actions/Citizens)



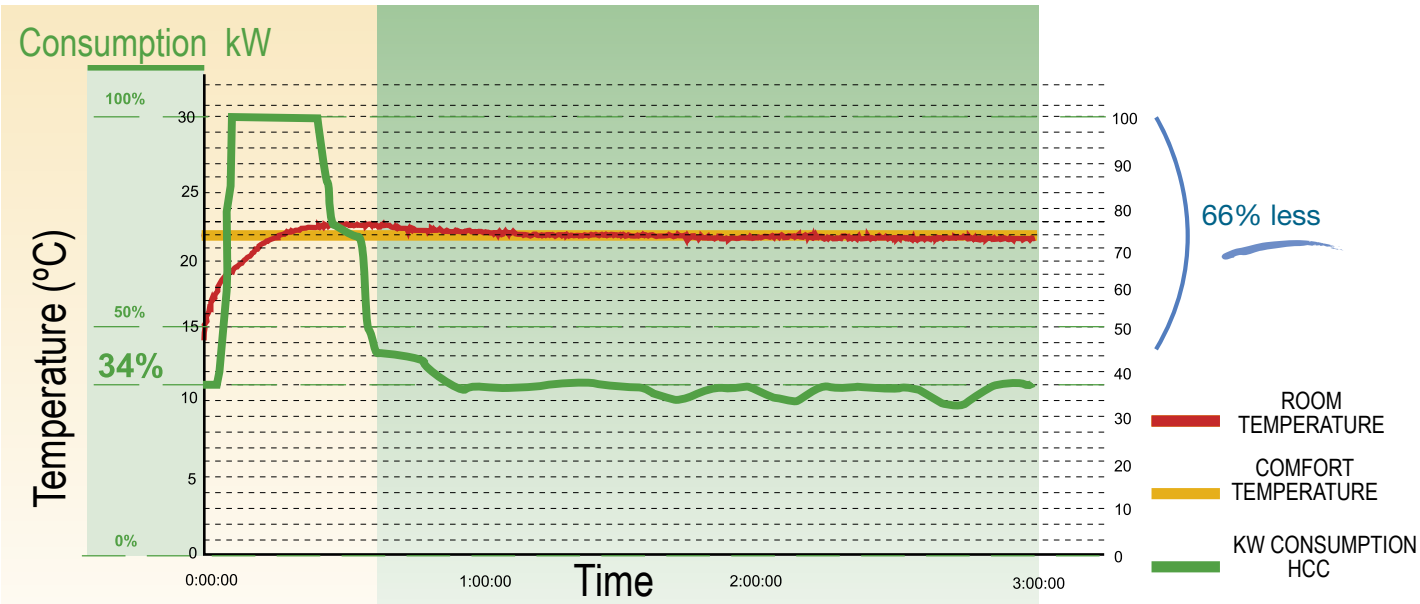
Climastar Inertia radiators offer the **most accurate temperature** in the industry, providing the best thermal stability and avoiding heat fluctuations. These ranges have a precision of ± 0.05 °C accuracy compared with other manufacturers (± 0.3 °C) or even other traditional room temperature control systems (± 2 °C).

Main consequence of this accuracy is that CLIMASTAR inertia radiator will maintain a far more stable temperature in the room for longer time. Consumption time periods will be reduced.

CLIMASTAR incorporate the HCC (Heating Cruise Control) System to **increase efficiency** and **reduce consumption.**

The Heating Cruise Control System (HCC) is common to all CLIMASTAR products and uses minimal power consumption to maintain a constant temperature avoiding peaks and troughs of power usage and heat output.

it is based on an predictive algorithm that uses electric pulses to adjust the consumption based on the thermostat readings (1 every 10 milliseconds).



HCC will manage the maximum power to reach the comfort temperature as quick as possible.

Once the set temperature is achieved, HCC will reduce the power and compensate the room heat losses . Dual Kherr accumulation panel will maintain a stabilized temperature while HCC will minimize consumption.

Standard performace with electric pulses of two CLIMASTAR radiators (2 kW + 1 kW)

HCC does not only reduce electric consumption but also optimizes the electricity use in the house.

Different radiators can perform at the same time, not being necessary to increase the electric power supply at home.