CLIMASTAR
silicium technology heating

Energy-saving radiators

www.climastar.info

Inertial heating solutions. Design and reliability for home.

A complete range of electric, hydronic and hybrid radiators, towel radiators, and water heaters for professional projects.

Ecodesign Compliant

ErP COMPLIANT 2018

LOW CONSUMPTION
Reduce your carbon footprint

Energy Saving

Compatible

Google Home

amazon alexa

CLIMASTAR

Technology and design dedicated to enhancing the home.

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Quality, innovation and efficiency

CLIMASTAR has the complete control on the developing and manufacturing process of all our products. It is officially certified under the ISO 9001 quality standard.

ISO 9001:2015 Quality Management System certification ensures the implementation and continuous improvement of quality processes across all areas of the company, with the aim of achieving full customer satisfaction.

Strict control at every stage of the production process—design, supplier and material evaluation, assembly line manufacturing, and final product testing prior to packaging—ensures full traceability of each model and enhances overall quality.

We guarantee that every unit leaving our factory is in perfect condition and ready for use.

International Product Certifications

Climastar equipment means offering maximum safety and ensuring flawless performance.

Safety, optimal functionality, and efficiency are complemented by the highest standards in manufacturing quality.

This has been thoroughly validated by independent international certification organizations.

Each of our products undergoes individual testing to guarantee optimal performance and adherence to the most stringent international standards for electrical safety and electromagnetic compatibility.

Our products comply with all technical and legal safety regulations established by the member states of the European Union.

All CLIMASTAR products display the CE mark.

Below, we highlight several certifications that CLIMASTAR products (excluding variations in ranges) comply with on an international scale:

The certifications are founded on the following international standards:

EN 60335-1:2012	BS EN 62233:2008
EN 60335-2-30:2009	BS EN 63000:2018
EN 60529:1991	EN 55014-1:2021
EN 61000-3-2:2019	EN 55014-2:2021
EN 61000-3-3:2013	

Sustainability

CLIMASTAR is committed to manufacturing in full compliance with its Environmental Management System, ensuring environmental protection and responsibility in accordance with the ISO 14001 standard.

We are committed not only to reducing the negative impact on our ecosystem, but also to continuously improving and developing highly efficient, advanced equipment designed to minimize energy consumption.

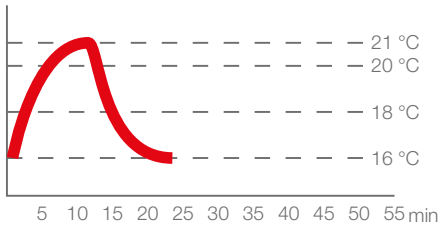
CLIMASTAR radiators do not produce smoke or emit any type of pollutants into the environment. They can be powered by renewable energy sources such as solar or wind power.
Join us in reducing your carbon footprint and working together to combat its harmful effects on the environment.

CLIMASTAR means Energy saving

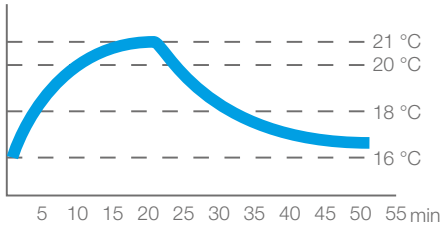
Diferencias clave con otras tecnologías:

CLIMASTAR technology enables our inertia radiators to heat spaces much faster and retain that heat for longer than other radiators.

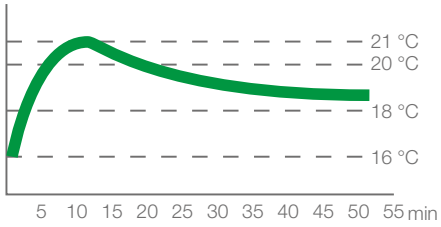
Under identical conditions of room size, room type, and heating power, the performance of different types of heaters available on the market is as follows:



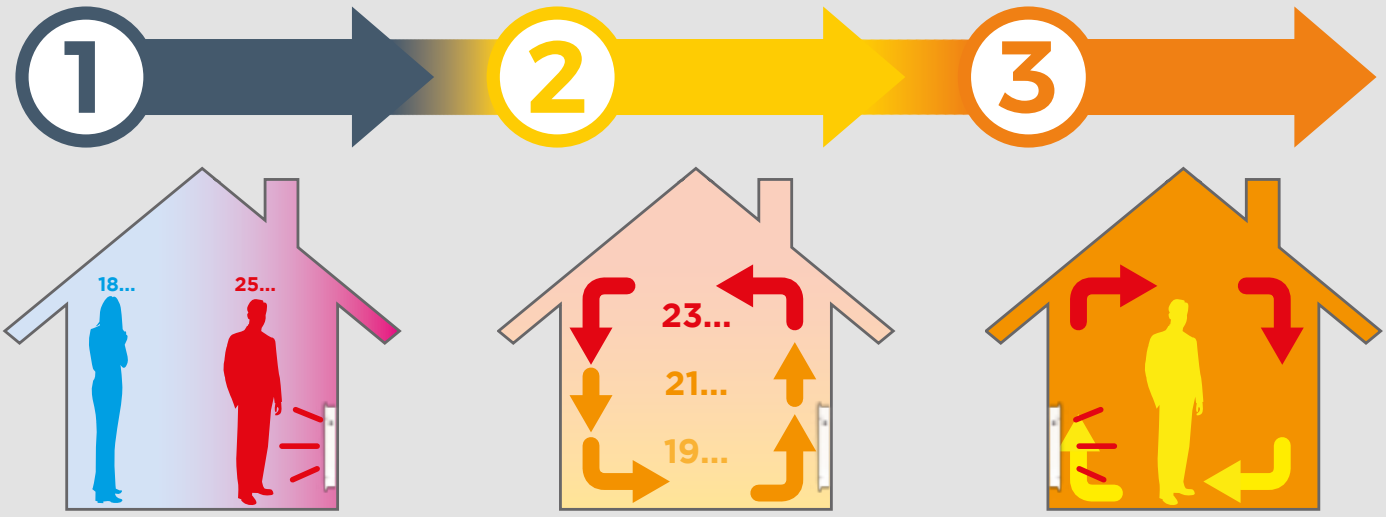
A standard convection heater heats up a room quickly; however, the temperature drops just as rapidly once it is turned off.



A fluid-filled radiator retains heat in the room for longer, although it takes more time to reach the desired temperature.



CLIMASTAR inertial units heat the room quickly, while the integrated DUAL-KHERR technology maintains the temperature in the room for an extended period.



RADIATION | **CONVECTION** | **CLIMASTAR**

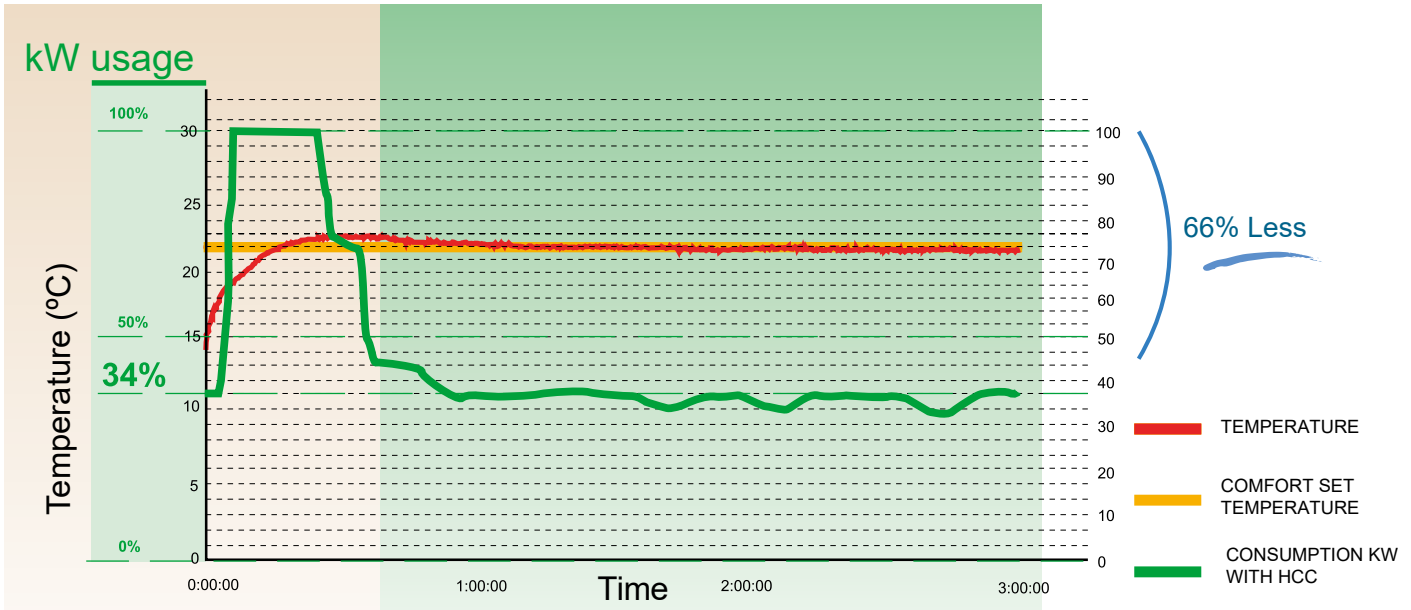
This illustrates a room where heat is mainly transferred through radiation. Since radiation does not heat the air, achieving a comfortable temperature requires either a very long period of time or greater power.

In this scenario, temperatures vary between the upper and lower parts of the room, meaning the upper area must be overheated to achieve a comfortable temperature in the lower room areas.

In this room, heat transference occurs through both convection and radiation. Convection will heat up the room very quick while the radiation will keep the thermal comfort.

CLIMASTAR integrates the HCC (Heating Cruise Control) system, which enhances **efficiency and minimizes energy consumption.**

The HCC system is a standard feature across almost all CLIMASTAR ranges. It uses the minimum power required to maintain a constant and stable temperature, avoiding power and heat peaks and excesses. It is based on a predictive algorithm that uses electrical pulses to adjust energy consumption based on thermostat readings (one every 10 milliseconds).



HCC operates at maximum output until the set comfort temperature is reached in a very short time.

Once the set comfort temperature is achieved, HCC algorithm will adjust power output to compensate the heat loss. The Dual-Kherr heat storage panel will maintain a stable temperature, while HCC will optimize energy efficiency.

CLIMASTAR features an open window and door detection system designed to improve thermal efficiency and reduce energy consumption.

When the radiator is operating and a window or door is opened, the unit automatically switches off to save energy.

If a temperature drop of more than 3°C is detected within a 5-minute period, the open window/door detection function is activated and the radiator switches off.

If the temperature stabilizes for 15 minutes, the unit automatically resumes operation.

CLIMASTAR integrates intuitive and easy-to-use applications across its ranges to improve the overall user experience.

CLIMASTAR iproduct ranges feature highly intuitive and easy-to-use control panels. All our solutions can be operated directly via its integrated control panel.

Adittionally, we also offer external centralized solutions to facilitate the thermal comfort management throughout the home.

Wi-Fi, Wireless or pilot wiring connectivity enables seamless control and integration across devices.

Mastering the new CLIMASTAR ranges allows you a very intuitive management to achieve the best thermal comfort in your home while reducing energy consumption.

Everything at your fingertips.

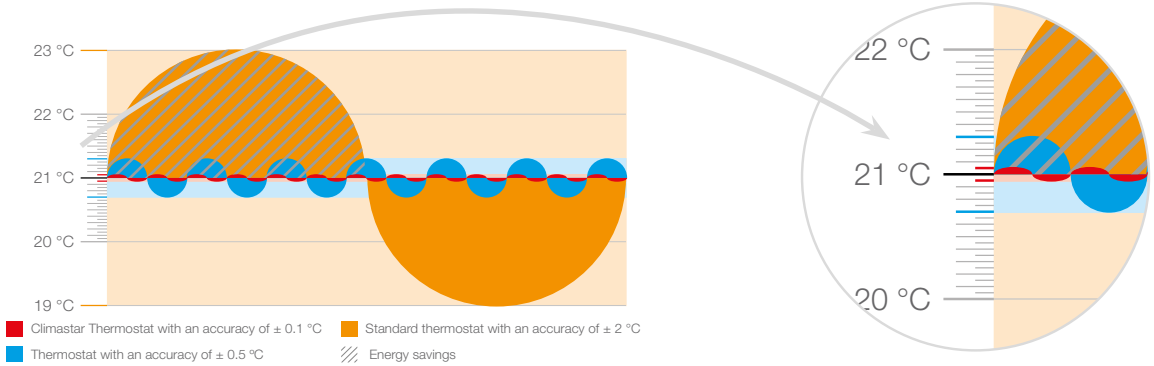
CLIMASTAR features the most precise temperature control in industry, **maximizing temperature stability, thermal efficiency and minimizing energy consumption.**

Thermal comfort varies according to individual metabolism. In general children and older adults typically require higher temperatures. Also there are diferent heat requirements between male and female adults.

The standard recommendation is to maintain indoor temperatures at 19°C during winter. At night 16°C is advised to support better sleep quality.

But what it is important here is to know that each additional degree in the room can increase heating costs by 5% to 10%, regardless of the heating system used.

(Source: European Commission/Climate Actions/Citizens)



CLIMASTAR inertia radiators provide unmatched temperature control, delivering exceptional thermal stability and minimal fluctuations. With solutions with accuracy of ±0.05°C, and accuracy of ±0.1°C, they outperform other manufacturers (±0.3°C) and traditional thermostats (±2°C).

The main benefit of this precision is that CLIMASTAR inertia radiators maintain a more stable ambient temperature for longer periods, reducing energy consumption.

DUAL-KHERR

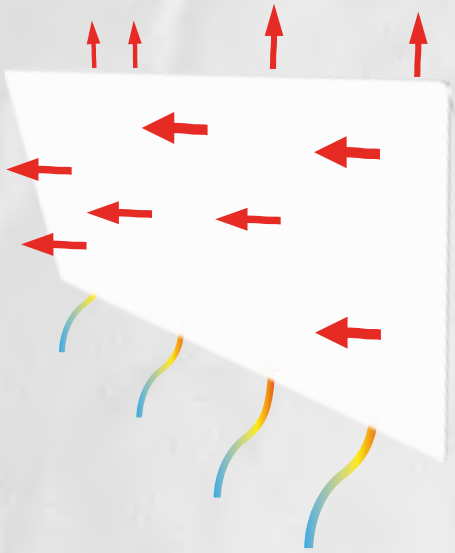
It is the core of CLIMASTAR technology, designed to improve efficiency and reduce energy consumption.

This patented material, used in the front panels of most of our products, is made of silicon and aluminium. Silicon offers high heat absorption capacity, while aluminium is one of the most efficient thermal conductors.

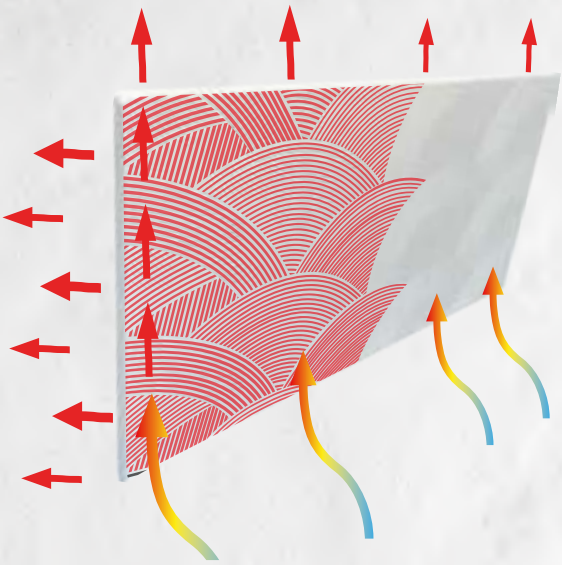
DUAL-KHERR guarantees the best heat transfer and for longer, reducing the temperature layers and stabilising the temperature in the room, what reduces energy consumption.

LIFETIME GUARANTEE ON DUAL-KHERR

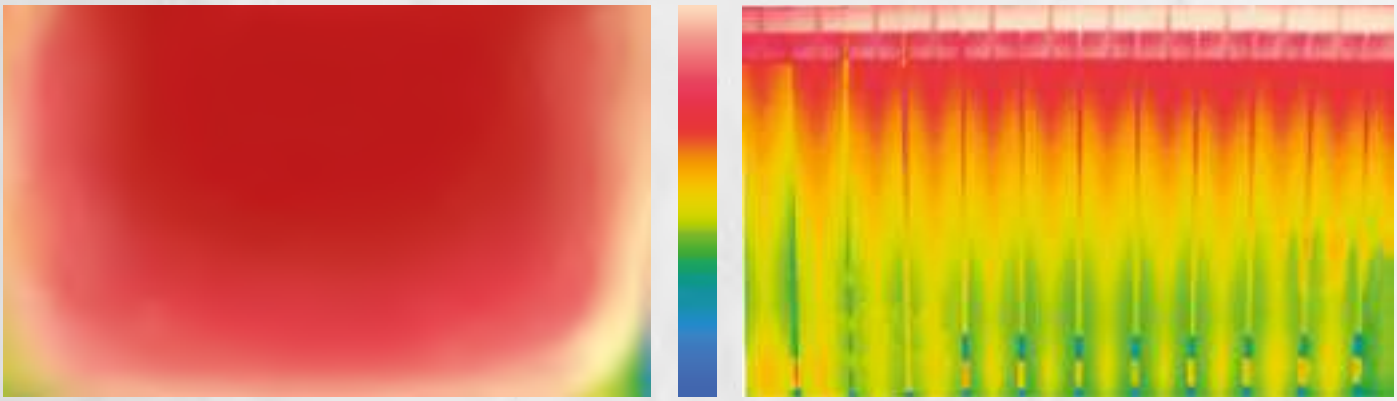
DUAL-KHERR
High accumulation



The front side of the panel improves heat transfer for longer thanks to its thermal storage capacity (inertia).



The rear of the panel features a radiant silicon arc structure that enhances the heat absorbtion throughout all the panel surface optimizing heat distribution to the room.



The front panel maintains a uniform temperature (left image), delivering consistent heat transfer and continuous radiant warmth. Other types of radiators cannot achieve such uniform surface temperature (right image).

DUAL-KHERR Technology

Only a thermo-stable material at peak density can deliver superior heat retention and long-term stability.

During this material manufacturing, raw materials are refined into microparticles, molded, and subjected to pressures of up to 2,000 tons (for 100 × 50 cm components).

They then undergo a high-temperature process at 1200°C, reaching a semi-liquid state.

This process ensures complete homogeneity and maximum density through thermal contraction. No resins or agluttinants are used—only pressure and heat—resulting in a material that is permanently stable and unalterable.

Each component is subjected to rigorous final inspection using electronic imaging and planimetric quality control to detect any imperfection. This uncompromising commitment to quality allows us to offer a lifetime warranty on DUAL-KHERR

Energy saving

Electric inertia Radiator

Electric inertia radiators

CLIMASTAR ranges of inertia radiators are based on the integration of DUAL-KHERR silicon panels with high heat storage capacity and efficient heat transfer through both radiation and convection.

When a CLIMASTAR radiator is switched on, it initially operates mainly through convection to rapidly increase the room temperature. Subsequently, the heat stored in the panel stabilizes and maintains the room temperature, maximizing comfort through radiant heat.

CLIMASTAR ranges include models with front heat storage panels as well as models with an additional internal storage core.

Combined with the aluminum heating element, this design enables natural air convection through the radiator. The heat is then absorbed by the storage panel, ensuring optimal heat distribution throughout the room.

This heat storage, together with thermal stabilization and radiant heat, guarantees optimized energy use.

Another key feature of these radiators is the Heating Cruise Control (HCC) algorithm, which operates directly on TRIAC interfaces based on PID technology to ensure low energy consumption.

Energy saving

Electric inertia Radiator

Silicium Touch

Possibly the best efficiency in direct heating

Central heating system with individualized room temperature control to ensure comfort in every room of your home.

Daily and weekly programming can be done directly on the device and also via a pilot wiring central control manager (on request).

High accuracy temperature control thermostat: ±0.05°C

Heating Cruise Control (HCC) system algorithm, featuring TRIAC interfaces based on PID technology to ensure **low energy consumption.**

DUAL-KHERR inertia front panel, designed to stabilize temperature and reduce energy consumption.

Three-level temperature selector: Comfort, Eco and Frost protection, allowing you to adjust consumption levels and protect your home. In Economy mode, energy consumption can be reduced by up to 21%.

Open window and doors detection to stop the heating process when heat loss is detected.

Class II double insulation for **extra safety.**

TOUCH Control Panel

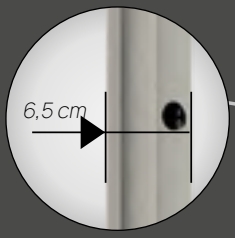
- Heating Cruise Control algorithm (HCC) with TRIAC interface based on electric micropulses and PID technology to reduce the energy consumption.
- High accuracy electronic thermostat ±0.05°C.
- Capacitive touchscreen, easy to use with security lock.
- Work mode selector, manual or automatic.
- Daily / Weekly programmer.
- Open window detection.
- Optional management via central control pilot wire (on request).

Product Features

User-friendly and intuitive operation through a capacitive touchscreen.

External Silicium out

External
DUAL-KHERR®
heat retention panel

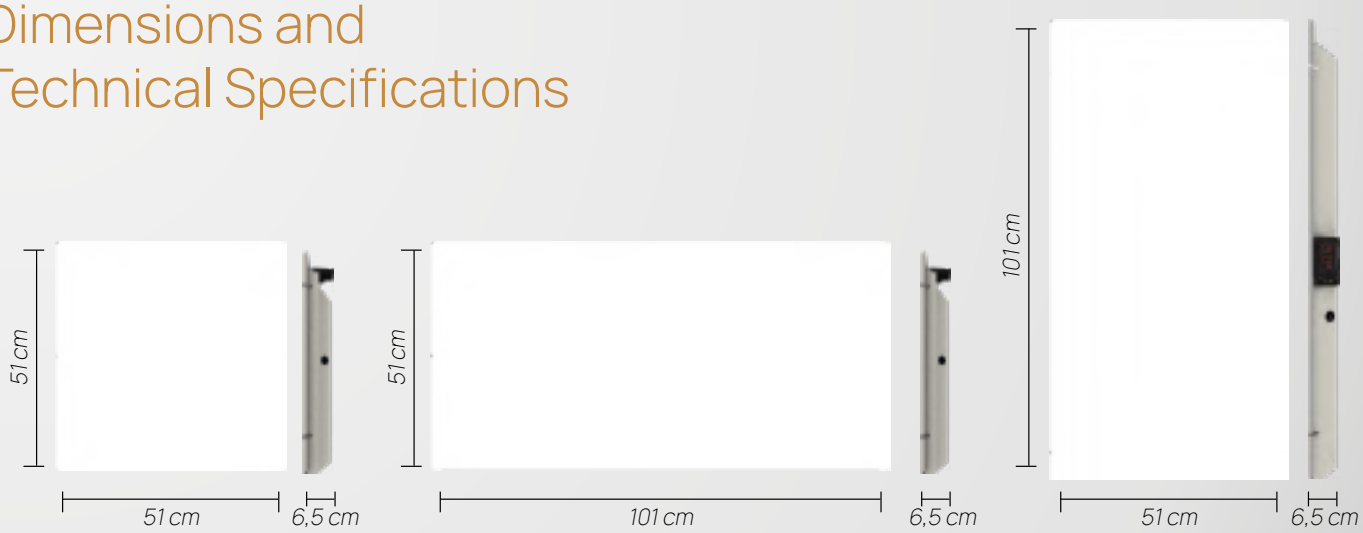


Compact design with a steel frame and epoxy coating.

HCC efficiency
TCM
Triac Control Management

Uniform temperature and energy restriction with HCC algorithm and TRIAC management.

Dimensions and Technical Specifications



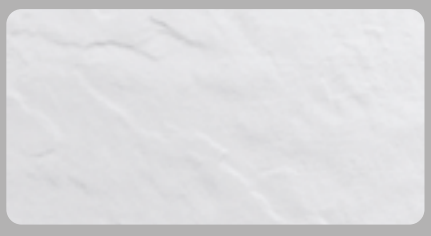
Voltage	230V / 125V
Frequency	50 Hz / 60 Hz
Rated power	500, 800, 1000, 1500, 2000 W
Connecting plug	Double pole, 15 A / 125–250 VAC
Safety Thermostat	Automatic rearm
Electronic Room Thermostat	Range 15°C – 28°C (Frost protection 7°C)
Electrical Protection	Class II
IP Protection	IP24
Wall fitting system	Metal wall bracket with screws and wall plugs

Transportation details

Modelo	Potencia (W)	Dimensiones embalaje (cm)	Peso (Kg)	Units per pallet*	
				FTL	LTL
Square	500/800/1000	60x16x62	13	27	22
Horizontal	1500/2000	110x16x62	25	15	12
Vertical	800/1000	110x16x62	25	15	12

**FTL: Full Truckload. LTL: Less than Truckload.*

Recommended finishes:



White Slate (PN)

Dark Nature (DN)

White Quartz - Mimetic (BQ)

The White Quartz finish can be painted in any color of your choice by applying a waterproof coating available at any paint store.

Silicium Touch Bathroom Radiators

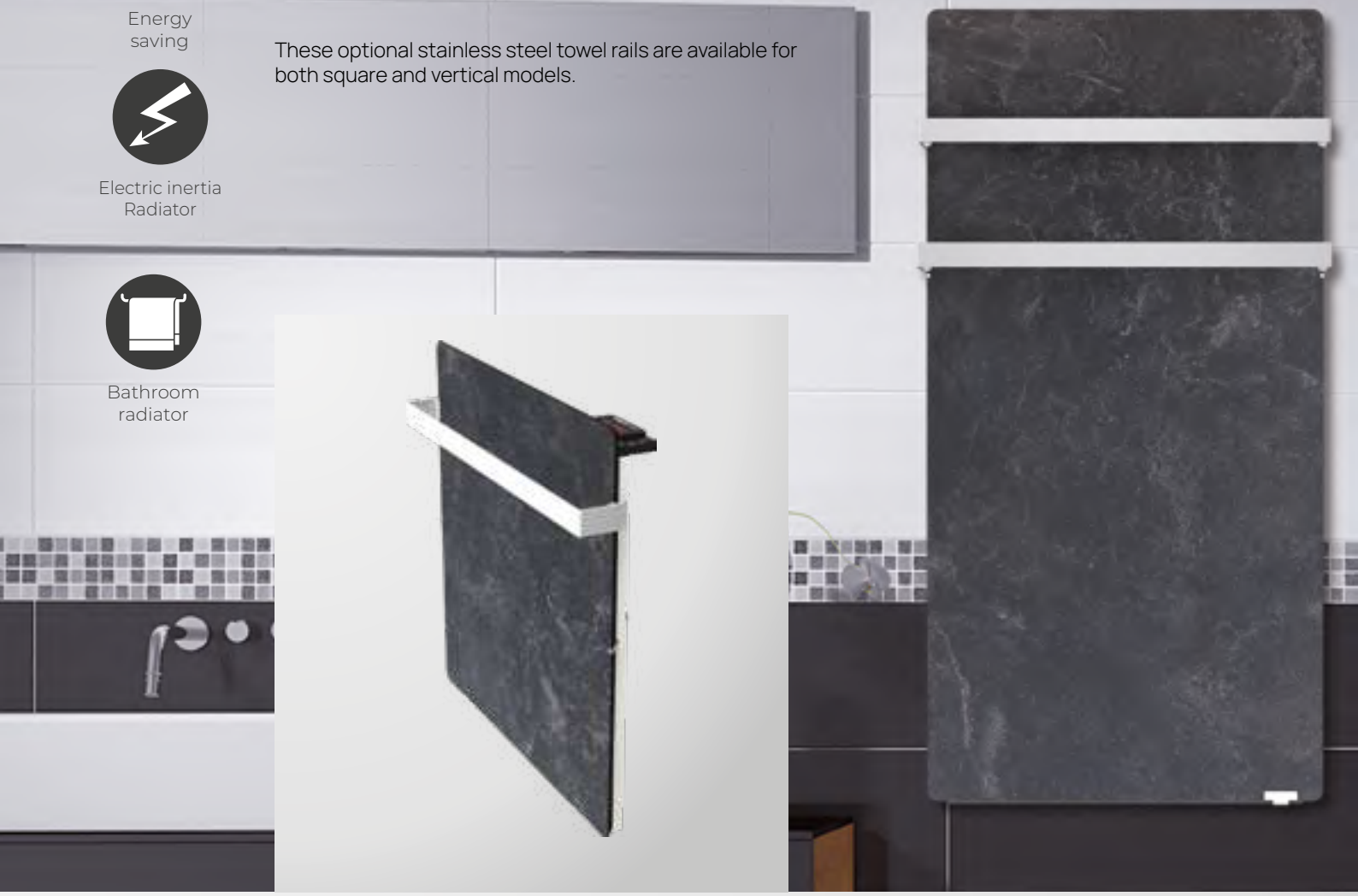
Silicium TOUCH models are also suitable as bathroom radiators by adding some special designed towel rails.

Energy saving

Electric inertia Radiator

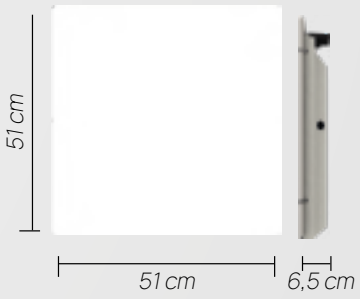
Bathroom radiator

These optional stainless steel towel rails are available for both square and vertical models.



Stainless Steel Towel Rails:

Description	Reference		Weight (kg)
	5 cm depth	8 cm depth	
51 cm stainless steel rail	BT050X5	BT050X8	0,50



Model	Power (W)
Square	500/800/1000
Vertical	800/1000

Energy saving

Electric inertia Radiator

Silicium Avant Wifi

Ultimate Technology in heating management.

Integral connected heating system that brings comfort and wellbeing to highly demanding clients such as homes, hotels, retirement homes, student residences, colleges universities, offices...

Total control at your fingertips You can see at first-hand how efficiently you are using the heating system.

It allows you to know the temperatures, consumption and running costs accumulated in real time from your mobile, tablet or computer.

Weekly and daily programming can be done **directly on the device** control and addtionally using your mobile, tablet or computer ensuring a completely secure data exchange at all times.

High accuracy control thermostat ± 0,1 °C.

Heating Cruise Control algorithm (HCC) operating with TRIAC interfaces and based on PID technology that **restricts consumption.**

Double **DUAL-KHERR** storage system. Outer heat storage silicium panel that stabilises the room temperature together with an additional inner heat accumulation core that increases heat retention and reduces consumption.

Three-level temperature selector: Comfort, Eco and Frost-protection. Eco mode can reduce consumption by 21%.

Open window detector to stop heating process when a window is open.

Presence detector based on GPS technology.

Smart heating that learns from your life standards to adapt its performance.

Energy manager that optimizes the radiators to the power supply of your home **limiting or setting priorities to their energy use.**

Double insulation, Class II, for **extra safety.**

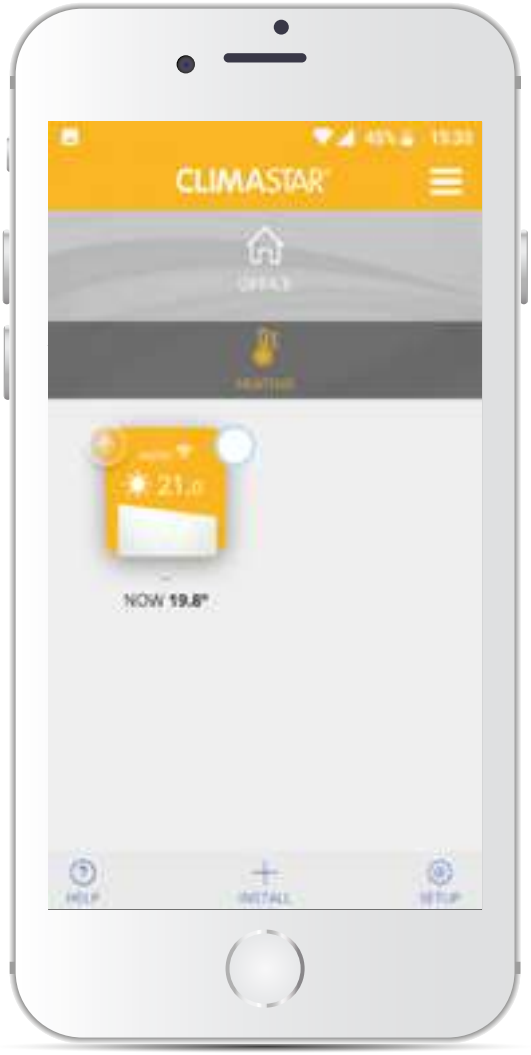
Optional Wi-Fi management

Google Home

amazon alexa

The simplest way to improve energy efficiency in your home.

Intelligent system.
Radiators adapt to your lifestyle by learning how long it takes to reach the desired temperature each day, automatically adjusting their performance to ensure the set temperature is achieved at the scheduled time.



Total control over consumption.
Monitor the efficiency of your heating system at all times.

Access real-time temperature and energy consumption data for each unit.

Power management system:
Optimizes equipment usage according to the available contracted power by setting priorities and limiting the maximum energy consumption of your heating system.

Geolocation:
Automatically activates or deactivates the heating system based on your presence at home.

User-friendly and easy-to-use control.

- Easily program radiator operation 24 hours a day, 7 days a week, either directly on the unit's display or via your smartphone.
- Cross-platform application available for iOS, Android, and web, accessible from smartphones, tablets, and PCs.
- Energy insights, consumption statistics and average power usage for complete control over your system.
- Easy and intuitive installation, from a single radiator to complex multi-zone systems in residential, commercial, educational, or hospitality environments.
- Guided setup. Installation wizard with step-by-step instructions.
- Regular system updates to ensure optimal performance.
- Full control anytime, anywhere, from any internet-connected device.

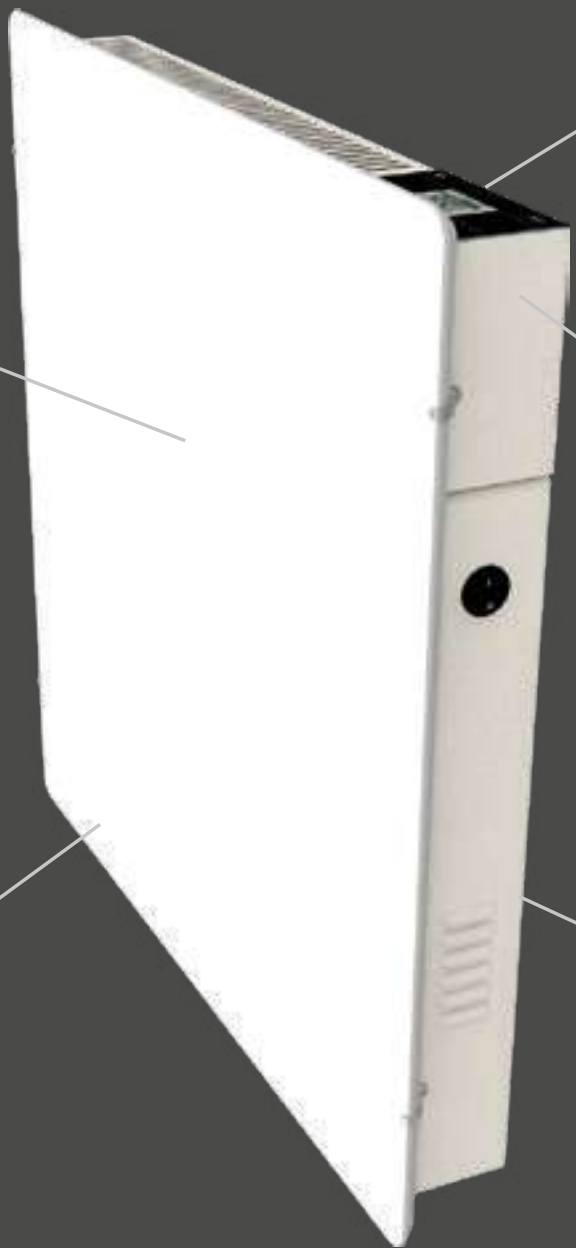
Available in Web App

ANDROID APP ON Google Play

Download on the App Store

Product Features

Integrated supplementary thermal storage core.



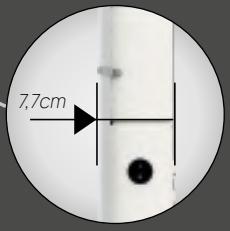
User-friendly and intuitive operation directly on the device or, alternatively, via its mobile application.

HCC efficiency TCM Triac Control Management

Uniform temperature and energy restriction with HCC algorithm and TRIAC management.

in&out Internal & external Silicium

External heat retention **DUAL-KHERR** *panel*



Compact design with a steel frame and epoxy coating.

Dimensions and Technical Specifications

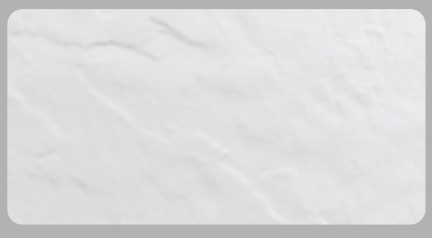
Voltage	230V / 125V
Frequency	50 Hz / 60 Hz
Rated power	500, 800, 1000, 1300, 1500, 2000 W
Connecting plug	Double pole, 15 A / 125–250 VAC
Safety Thermostat	Automatic rearm
Electronic Room Thermostat	Range 5°C – 30°C
Electrical Protection	Class II
IP Protection	IP24
Wall fitting system	Metal wall bracket with screws and wall plugs

Información de transporte

Model	Power (W)	Packaging dimensions (cm)	Weight (kilograms)	Units per pallet*	
					LTL
Square	500/800/1000	60x16x62	13	27	22
Horizontal	1500/2000	110x16x62	25	15	12
Vertical	800/1300	110x16x62	25	15	12

**FTL: Full Truckload. LTL: Less Than Truckload.*

Recommended finishes:



White Slate (PN)

Dark Nature (DN)

White Quartz - Mimetic (BQ)

The White Quartz finish can be painted in any color of your choice by applying a waterproof coating available at any paint store.

Energy saving

Electric inertia Radiator

Bathroom radiator

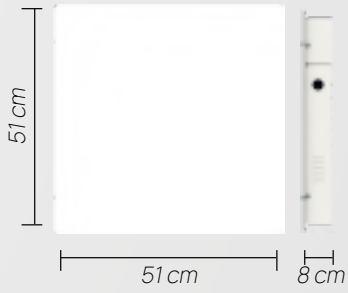
Silicium Avant Wi-Fi bathroom radiator

Silicium AVANT Wi-Fi models are also suitable for use as bathroom radiators

Optional stainless steel towel rails are available for both square and vertical models.

Stainless Steel Towel rail:

Description	Reference		Peso (Kg)
	5 cm in depth	8 cm in depth	
51 cm stainless steel rail	BT050X5	BT050X8	0,50



Model	Power (W)
Square	500/800/1000
Vertical	800/1300

Energy saving

Electric inertia Radiator

Silicium Curve Wi-Fi

Distinctive design and advanced technology for warmth and comfort.

High-end, fully connected integrated heating design that provides comfort and well-being to the most demanding customers.

The exclusive curved shaped concept of the external DUAL-KHERR heat storage panel not only stabilises the temperature and retains heat but **also extends heat radiation** up to 160°, improving thermal comfort and reducing consumption.

Total control at your fingertips. Daily and weekly programming can be carried out directly on the radiator's own display and also via the Climastar app ensuring a completely secure data exchange at all times.

You can check the actual efficiency of your heating, manage temperatures, energy consumption and cumulative costs in real time. All from your mobile phone, tablet or computer.

High-accuracy temperature control thermostat ± 0.1 °C.

Heating Cruise Control algorithm (HCC) operating with TRIAC interfaces and based on PID technology to **effectively reduce the energy consumption.**

Three-level temperature selector: Comfort, Eco and Frost-protection. Eco mode can reduce consumption by 21%.

Open window detector to stop heating process when a window is open.

Presence detector based on GPS technology.

Smart heating that **learns from your life standards** to adapt its performance.

Energy manager that optimizes the radiators to the power supply of your home limiting or setting priorities to their energy use.

Double insulation, Class II, for **extra safety.**

Optional Wi-Fi management

Google Home

amazon alexa

User-friendly and easy-to-use control

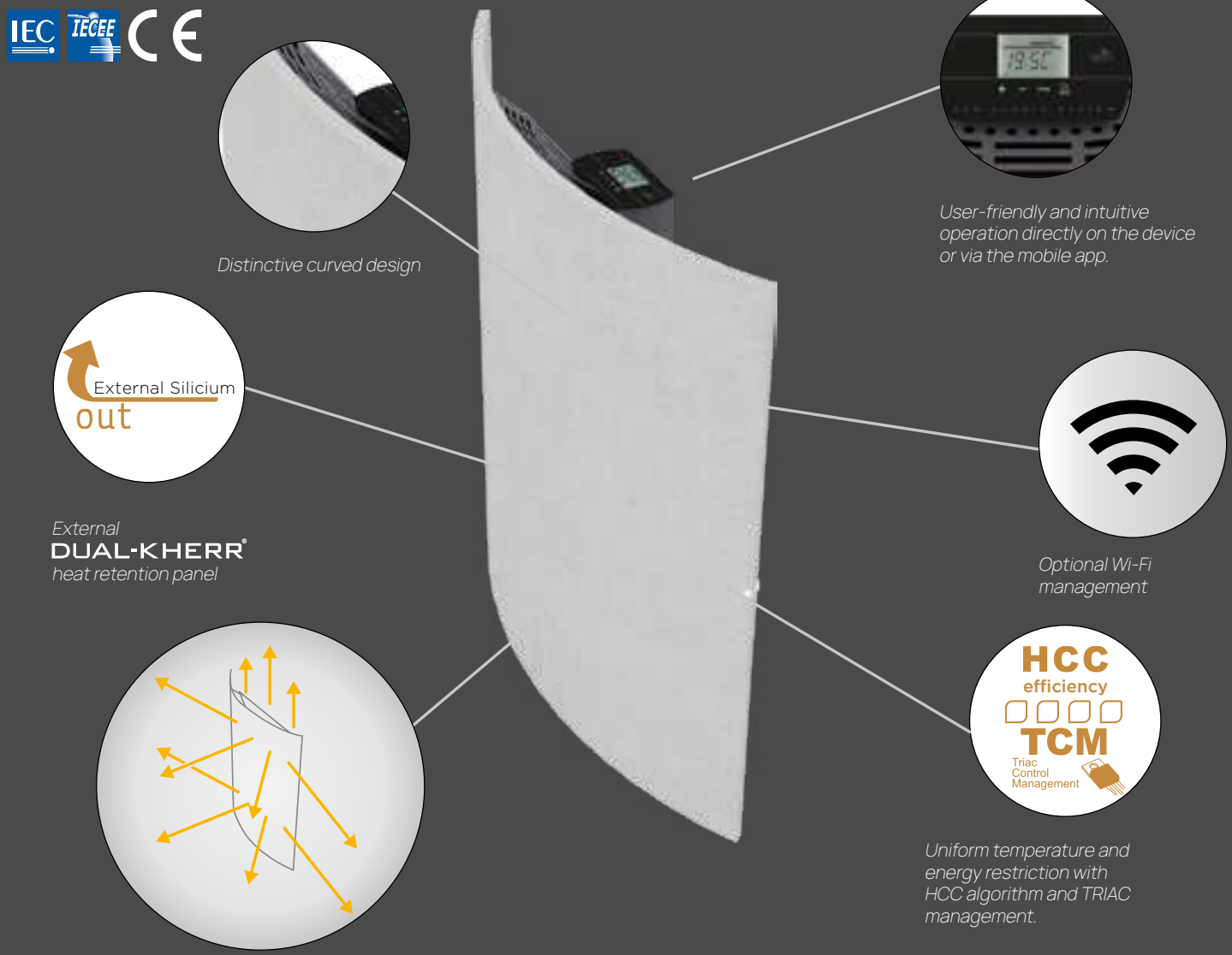
- Easily program radiator operation 24 hours a day, 7 days a week, either directly on the unit's display or via your smartphone.
- Cross-platform application available for iOS, Android, and web, accessible from smartphones, tablets, and PCs.
- Energy insights, consumption statistics and average power usage for complete control over your system.
- Easy and intuitive installation, from a single radiator to complex multi-zone systems in residential, commercial, educational, or hospitality environments.
- Guided setup. Installation wizard with step-by-step instructions.
- Regular system updates to ensure optimal performance.
- Full control anytime, anywhere, from any internet-connected device.

Available in Web App

ANDROID APP ON Google Play

Download on the App Store

Product Features:



Distinctive curved design

User-friendly and intuitive operation directly on the device or via the mobile app.

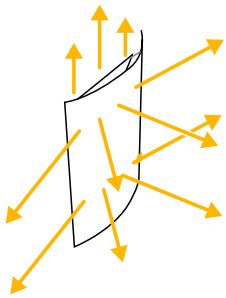
External DUAL-KHERR® *heat retention panel*

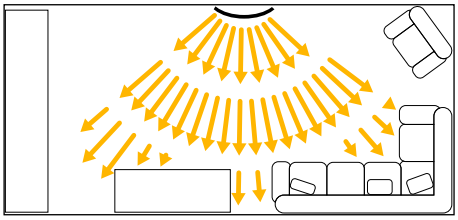
Optional Wi-Fi management

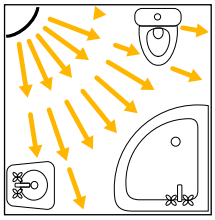
A radiation angle of up to 160° improves thermal comfort while reducing energy consumption.

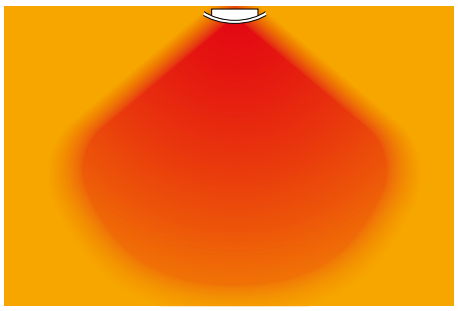
Uniform temperature and energy restriction with HCC algorithm and TRIAC management.

Radiation angle of up to 160°

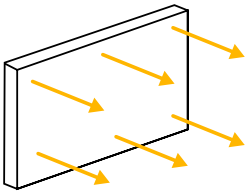


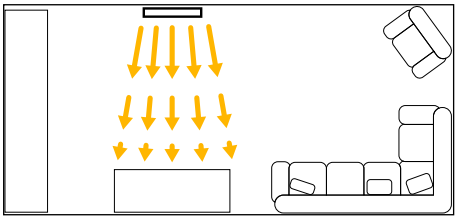


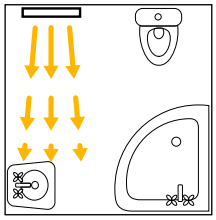


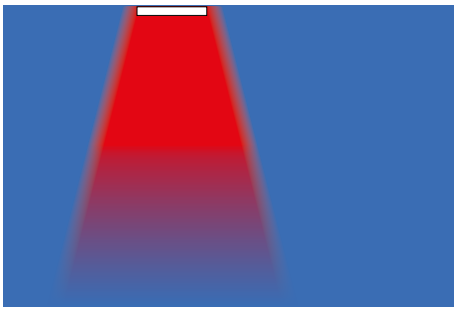


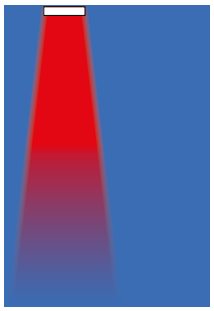
Standard panel radiators.



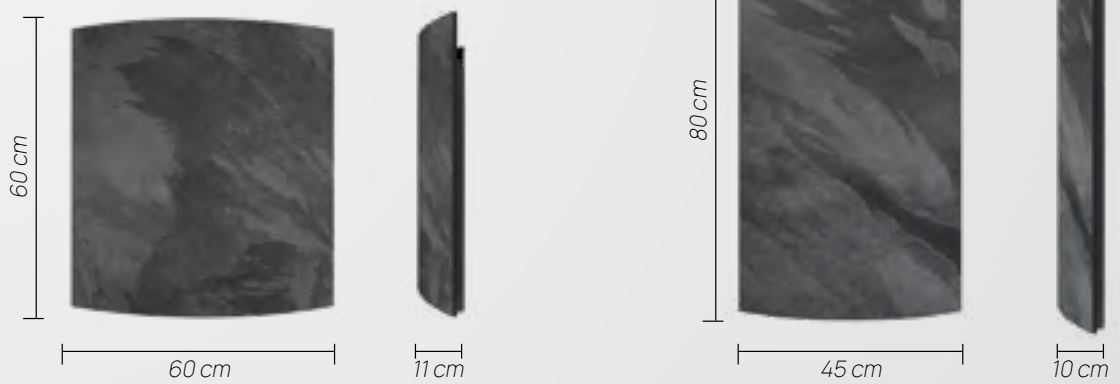








Dimensions and Technical Specifications



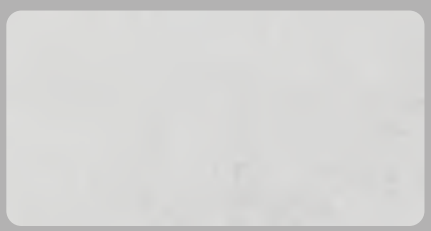
Voltage	230V / 125V
Frequency	50 Hz / 60 Hz
Rated power	500, 1000, 1500, 2000 W
Connecting plug	Double pole, 15 A / 125-250 VAC
Safety Thermostat	Automatic rearm
Electronic Room Thermostat	Range 5°C – 30°C
Electrical Protection	Class II
IP Protection	IP 24
Wall fitting system	Metal wall bracket with screws and wall plugs

Información de transporte

Modelo	Power (W)	Packaging dimensions (cm)	Weight (kilograms)	Units per pallet *	
				FTL	LTL
Square	500/1000/1500/2000	70x70x16	14	18	13
Vertical	1000/1500	90x22x16	18	12	12

**FTL: Full Truckload. LTL: Less than Truckload.*

Recommended finishes:



Silex Pearl

Silex Dark

Silicium Curve Wi-Fi bathroom radiators

Silicium Curve Wi-Fi models are also suitable for use as bathroom radiators by adding up to two towel bars.

These optional stainless steel towel bars are available exclusively for vertical models.

Energy saving

Electric inertia Radiator

Towel radiator

Barras toallero para Silicium Curve Wifi

Description	Reference	Weight (kilograms)
	5 cm depth	
32 cm curved stainless steel rail	BTCURVE	0,50

Model	Power (W)
Vertical	1000/1500

Silicium Slim Wireless

A new concept of radiant towel heater

Energy saving

Electric inertia Radiator

Towel radiator

Slim towel radiators are manufactured with **Dual-Kherr**, an external silicon inertia panel that storages heat.

This panel stabilizes and evenly distributes heat across its entire surface while reducing energy consumption.

Available in two sizes to suit the space requirements of any bathroom.

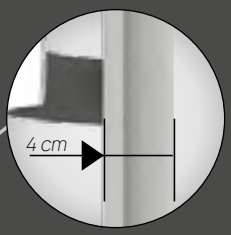
Slim ranges include a wireless programmable external thermostat with a 6-inch display and very high temperature control accuracy, ±0.1 °C. It also incorporates an energy control algorithm (HCC) with TRIAC interface based on PID technology to optimize and limit energy consumption.

Slim towel heaters Include two stainless steel towel rails.

New WIRELESS Cronothermostat

- Intuitive and easy-to-use wireless thermostat. Fully programmable, with jumbo size LCD display and safety lock.
- It displays real temperature, set temperature, and current operating mode.
- Three-level temperature selection: Comfort, Eco, and Frost Protection.
- Temperature range selection from 0 °C to 30 °C.
- Wireless and reliable radio frequency communication.
- Daily and weekly programming.
- High accurate electronic thermostat, ±0.1 °C.

Product Features:

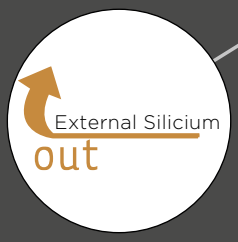


Sleek design with a steel frame and epoxy coating.

Both models are equipped with two towel rails.

Straight rails on the larger unit and curved rails on the smaller model.

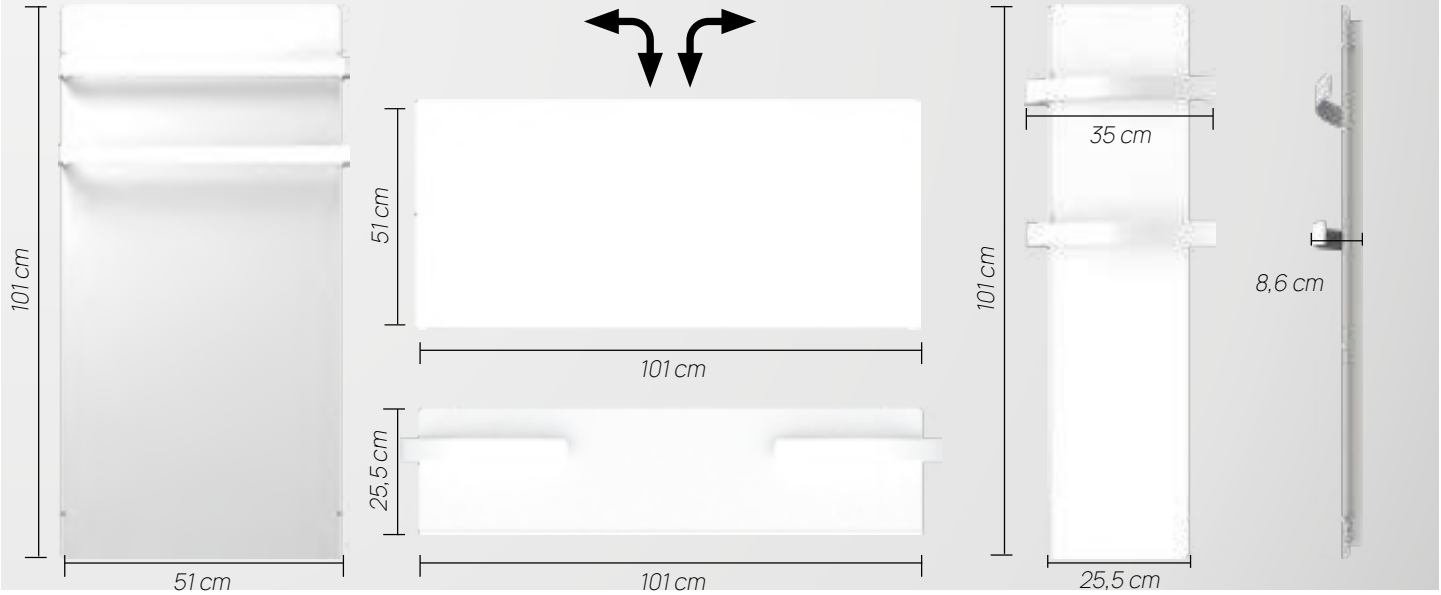
Radio frequency communication with the chronothermostat.



External
DUAL-KHERR®
heat retention panel

Radio Frequency Receiver

Dimensions and Technical Specifications



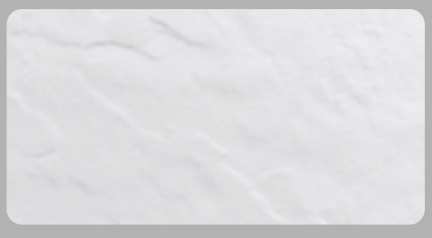
Voltage	230V / 125V
requency	50 Hz / 60 Hz
Rated power	500, 800 W
Connecting plug	Double pole, 15 A / 125–250 VAC
afety Thermostat	Automatic rearm
lectronic Room Thermostat	Range 5°C – 30°C
lectrical Protection	Class II
P Protection	IP24
Wall fitting system	Metal wall bracket with screws and wall plugs

Información de transporte

Model	Power (W)	Packaging dimensions (cm)	Weight (kilograms)	Units per pallet *	
					LTL
35x100	500	110x10x34	11	30	24
50x100	800	110x16x62	21	15	12

**FTL: Full Truckload. LTL: Less than Truckload.*

Recommended finishes:



White Slate (PN)

Dark Nature (DN)

White Quartz - Mimetic (BQ)

The White Quartz finish can be painted in any color of your choice by applying a waterproof coating available at any paint store.

Silicium H2O, Inertia radiators for central heating.

CLIMASTAR ranges of Silicium H20 Inertia Radiators are based on the use of **DUAL-KHERR** para aumentar la transferencia de calor a la habitación mediante la radiación y convección.

Silicon front panels to increase the heat transference to the room through radiation and convection.

They are manufactured with **Star-Deutsch steel panel,** the standard solution in Northern and Central Europe for hydronic installations.

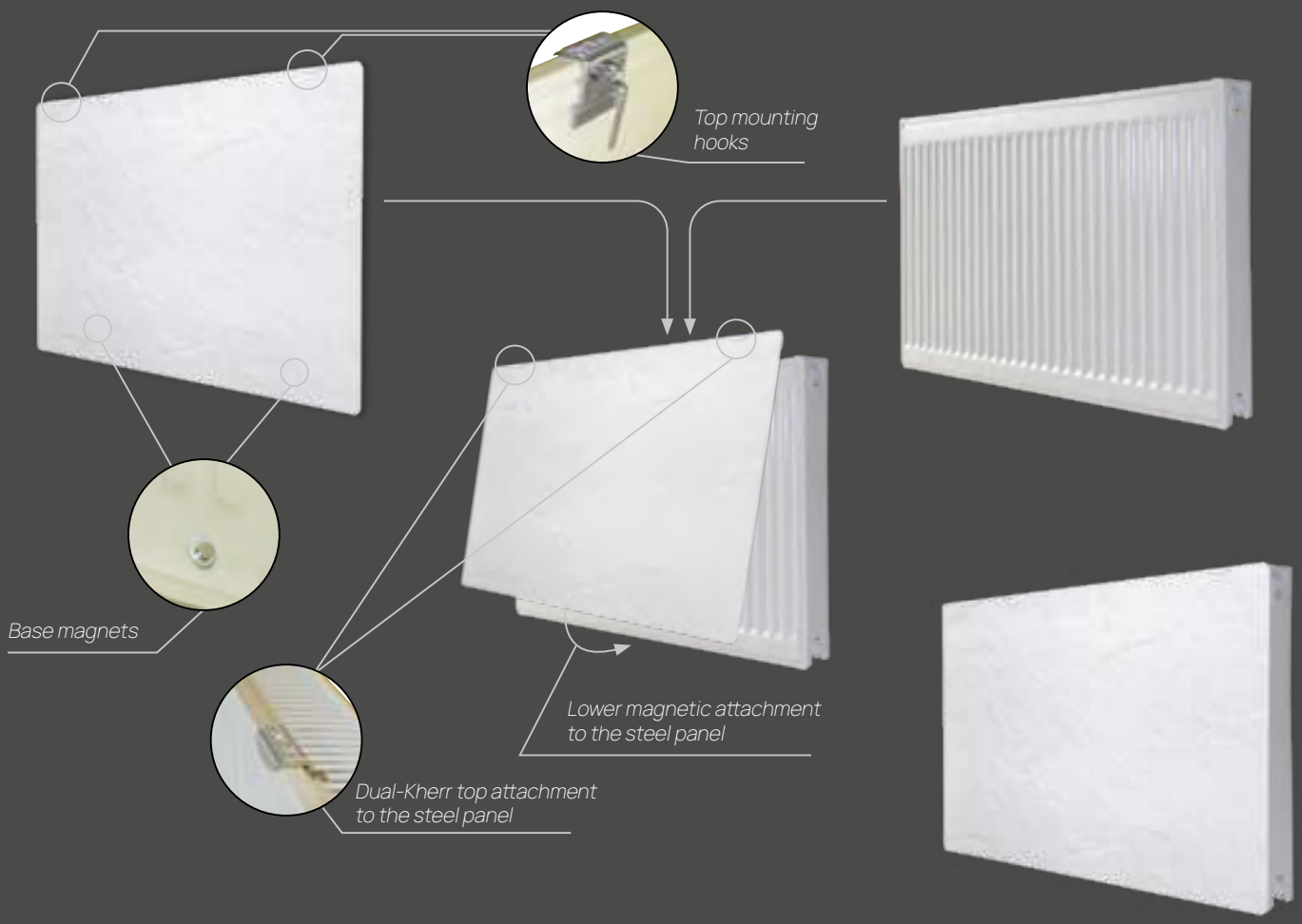
Silicium H20 Inertia radiators start transferring heat to the room mainly by convection, but after few minutes the heat accumulated in the **DUAL-KHERR** front panel will maintain and homogenize the room temperature mainly by radiation.

These hydronic series provide perfect heat distribution in the room. This radiation and thermal inertia will ensure very low running costs.

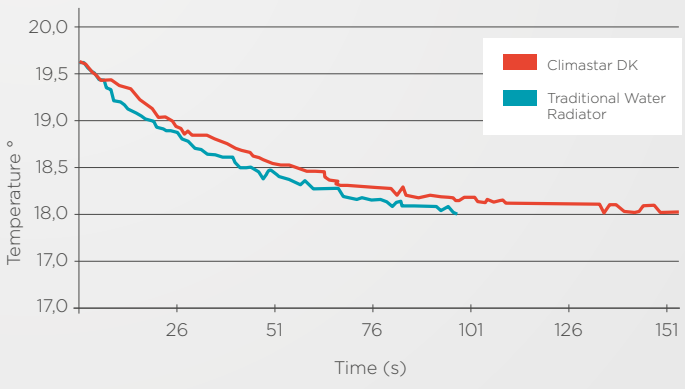
Available in three sizes and multiple power outputs and several finishes, Silicium H2O inertia radiators integrate seamlessly into any interior design.

Star-Deutsch steel panel

- Silicium H2O ranges are manufactured with external DUAL-KHERR®, thermal inertia panels, which stabilize temperature and reduce energy consumption. They also incorporate one of the finest steel radiators for central heating: **Star-Deutsch steel panels.**
- These panels are produced under the strictest quality standards. They are manufactured using automated welding processes to eliminate any potential errors during production.
- Every steel panel undergoes 100% testing under strict leak-tightness conditions at 13 bar pressure, ensuring a maximum working pressure of 10 bar.
- The panels are protected against corrosion through a finishing process that includes the application of a carboxy-epoxy resin, polymerized onto the radiator surface. Finished in White RAL 9010.



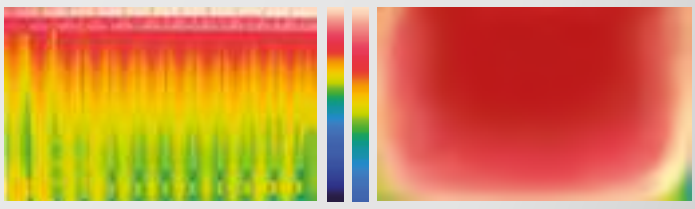
Silicium H2O inertia radiators maintain room temperature for up to 50% longer.



Silicium H2O inertia radiators deliver prolonged heat emission thanks to their thermal storage capacity.

Surface temperature remains more consistent across the entire panel, ensuring uniform and continuous heat transfer to the room through radiation.

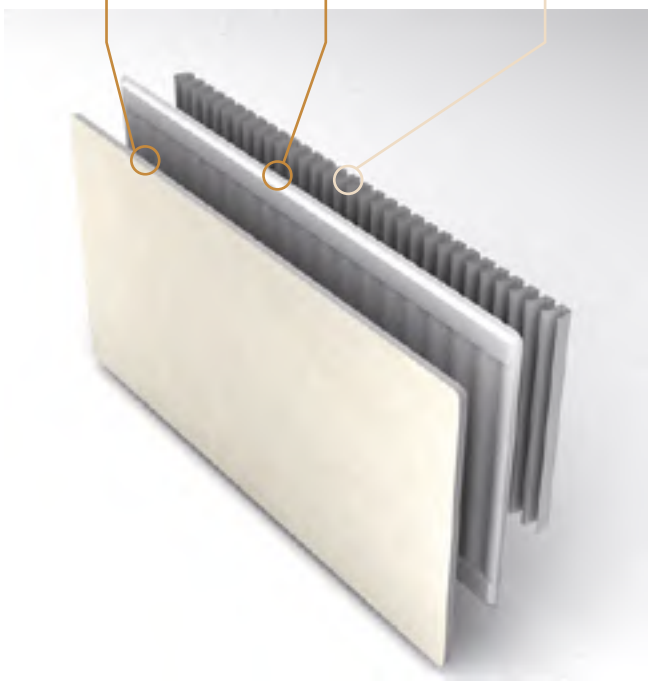
Comfort temperature is achieved more quickly, while temperature stratification within the room is significantly reduced.



Standard radiator *Silicium H2O Innovation*

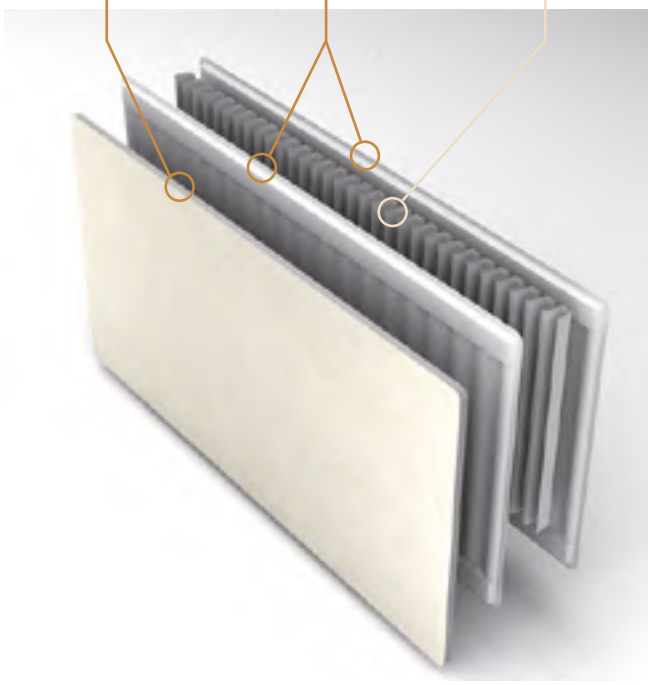
DK11
Ultra-slim
390 - 780 W

1 Heat storage panel | 1 radiator | 1 convector



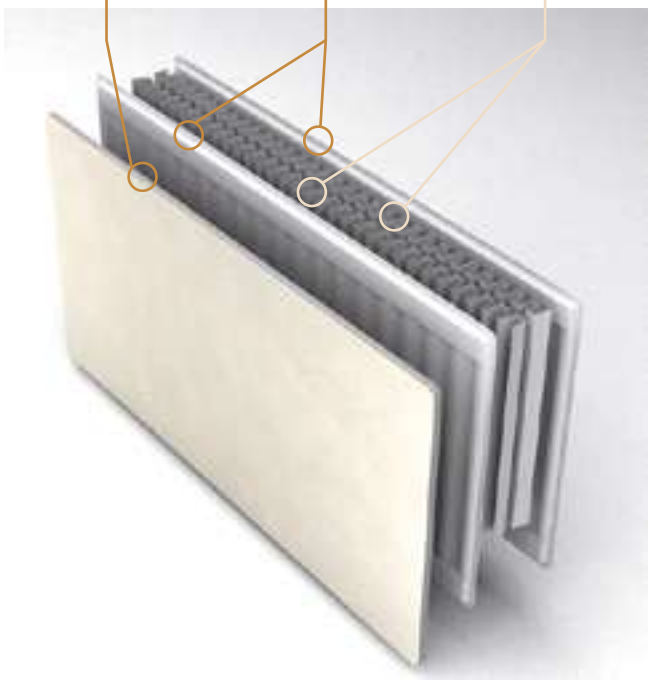
DK21
Ultra-slim and powerful
589 - 1178 W

1 Heat storage panel | 2 radiators | 1 convector



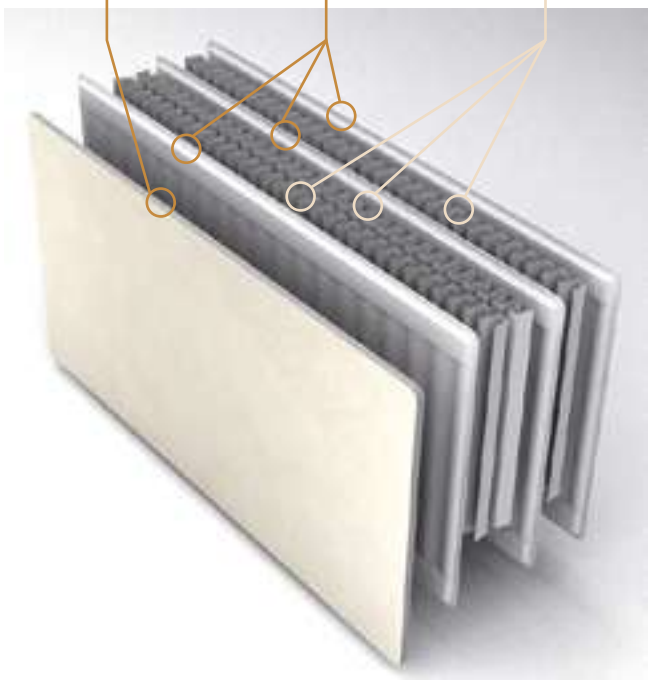
DK22
Powerful and compact
762 - 1524 W

1 Heat storage panel | 2 radiators | 2 convectors



DK33
The most powerful
1088 - 2176 W

1 Heat storage panel | 3 radiators | 3 convectors



Energy saving

H2O inertia Radiator

Towel radiator

Silicium H2O Bathroom Radiators.

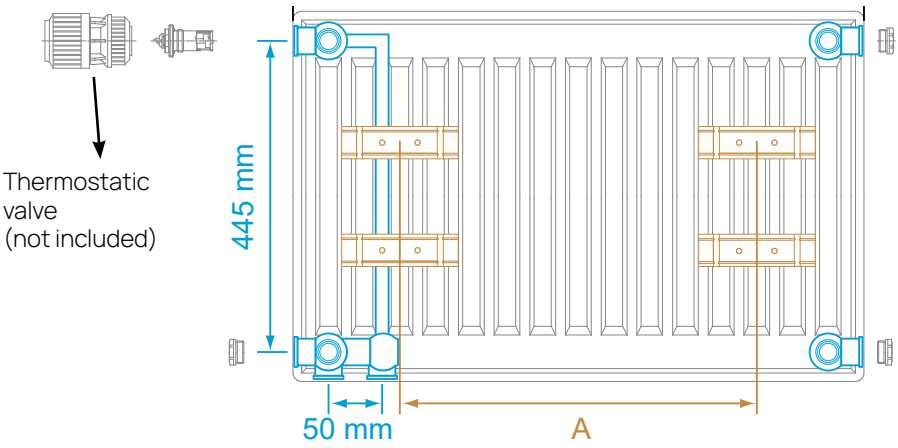
Silicium H2O models are also suitable for use as bathroom radiators by adding some special designed towel rails.

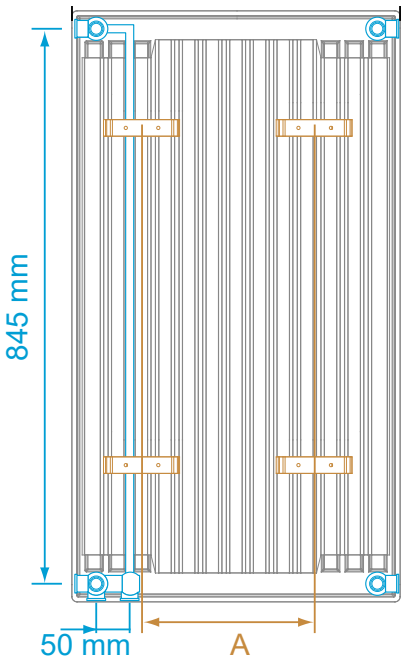
These optional stainless steel towel rails are available for square and vertical radiator versions.

Barras Toallero de Acero Inoxidable:

Description	Reference		Weight (kilograms)
	5 cm depth	8 cm depth	
51 cm stainless steel rail	BT050X5	BT050X8	0,50

Technical data
Star-Deutsch steel panel
Rear view



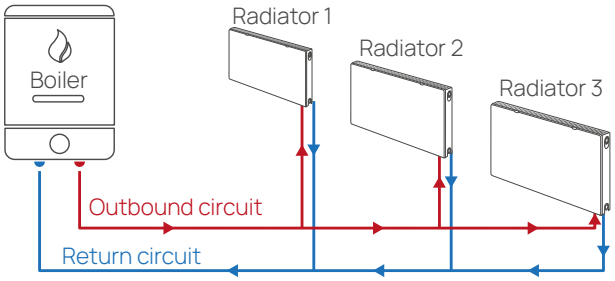


Model	L	A
500x500	500 mm	266,6
500x1000	500 mm (vertical)	298
1000x500	1000 mm	766,6

- 6 x 1/2" water connections.
- Valve is integrated in the steel panels, allowing different possible connections. It also provides a better internal water flow and uniform heat. It is suitable for both single pipe and double pipe installations.
- Radiators are supplied with 3 x water connection caps, 1 x air vent, 1 x manifold balancing valve and all the required wall fixing material (brackets, screws and plugs).

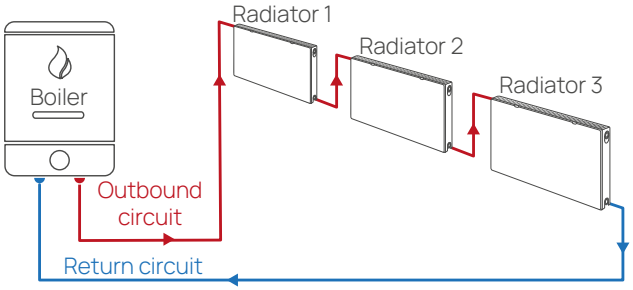
Accessories:

Double pipe installations



1/2" Valve		1/2" Lockshield		Pipe Fittings		Thermostatic valves	
	Ref.		**Ref.**	**mm**	**Copper**	**Reference**	**Reference**
Straight valve	TC09765	Straight valve	CO09767	10/12	10754	CO08900	TC20147
Angle valve	TC09766	Angle valve	CO09768	13/15	10755		

single-pipe systems



H-valve		Pipe Fittings			Thermostatic valves	
	Ref.	**mm**	**Copper**	**Multilayer**	**Reference**	**Reference**
Straight valve	TC09317	15	TC10752		CO08900	PT20147
Angle valve	TC09316	16	TC10751	TC10893		
		18	TC10753	TC11127		

Accessories:

Adaptor for axis distances:

- Allows the fitting on already existing installations with different axis dimensions

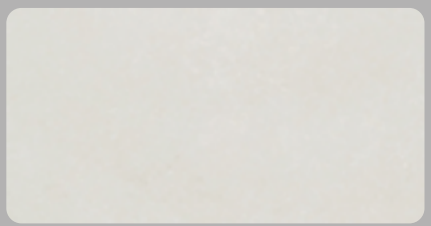
Model	Reference	Length	Connection A	Connection B
Superflex	TC12016	85 mm	Sliding nut 3.8 “	1/2” - 3/8”

Referencias Silicium H2O

	Modelo	Referencia*	Dimensiones (***) Largo x Alto x ancho	Kg (Peso en vacío)	Distancia ejes (**)	WΔT 60°	Kcal/h ΔT 60 ° W	WΔT 50 °C	Kcal/h ΔT 50 °
DK11	H2O DK 11 - 500	050011	50x50x8 cm	14,21	44,5 cm	494 W	425	390 W	336
	H2O DK 11 - 850	085011	50x100x8 cm	27,90	84,5 cm	786 W	676	621 W	534
	H2O DK 11 - 1000	100011	100x50x8 cm	29,42	44,5 cm	987 W	849	780 W	671
DK21	H2O DK 21 - 750	075021	50x50x9 cm	19,21	44,5 cm	746 W	642	589 W	507
	H2O DK 21 - 1200	120021	50x100x9 cm	36,85	84,5 cm	1139 W	980	900 W	774
	H2O DK 21 - 1500	150021	100x50x9 cm	39,43	44,5 cm	1491 W	1283	1178 W	1014
DK 22	H2O DK 22 - 900	090022	50x50x12,5 cm	21,6	44,5 cm	965 W	830	762 W	656
	H2O DK 22 - 1500	150022	50x100x12,5 cm	40,6	84,5 cm	1483 W	1276	1172 W	1008
	H2O DK 22 - 1800	180022	100x50x12,5 cm	43,33	44,5 cm	1929 W	1660	1524 W	1312
DK 33	H2O DK 33 - 1300	130033	50x50x18 cm	28,21	44,5 cm	1377 W	1185	1088 W	936
	H2O DK 33 - 2100	210033	50x100x18 cm	43,25	84,5 cm	2163 W	1861	1709 W	1470
	H2O DK 33 - 2500	250033	100x50x18 cm	57,43	44,5 cm	2754 W	2370	2176 W	1873

** Extension for axis distance available (see above) *H ½ connections Thermal gap ΔT (°C)
*** Without wall brackets

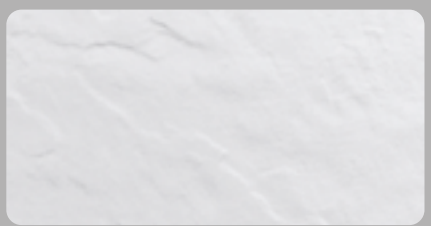
Recommended finishes:



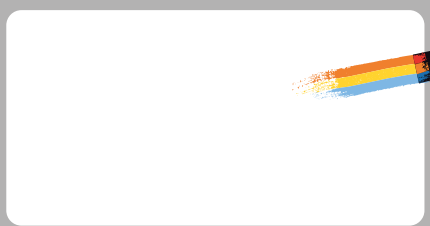
White Limestone

Terra Limestone

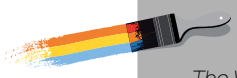
Dark Natura



White Slate



White Quartz - Mimetic



The White Quartz finish can be painted in any color of your choice by applying a waterproof coating available at any paint store.

Silicium Hybrid Inverter

The best hydronic performance for heating and cooling

Energy saving

Dynamic inertia Radiator

Perfect central heating system with individualized room temperature management. It is the ideal solution for your water central heating and cooling installation.

Manufactured with **DUAL-KHERR** **inertia front panel that will increase heat radiation and comfort,** decreasing the room temperature stratification and minimizing the heating consumption.

Cool & heat technology
Heating and cooling system that automatically adapts airflow and water flow to meet temperature requirements. In summer, it manages not only temperature but also humidity.

Ultra-quiet operation
Dynamic, stable, and continuous performance.

Inverter technology
Optimizes boiler or cooling unit performance, reducing operating costs and improving overall efficiency.

New Smart DK-S Digital Control Module

The DK-S digital module manages all system parameters, allowing the user to adjust performance and reduce energy consumption:

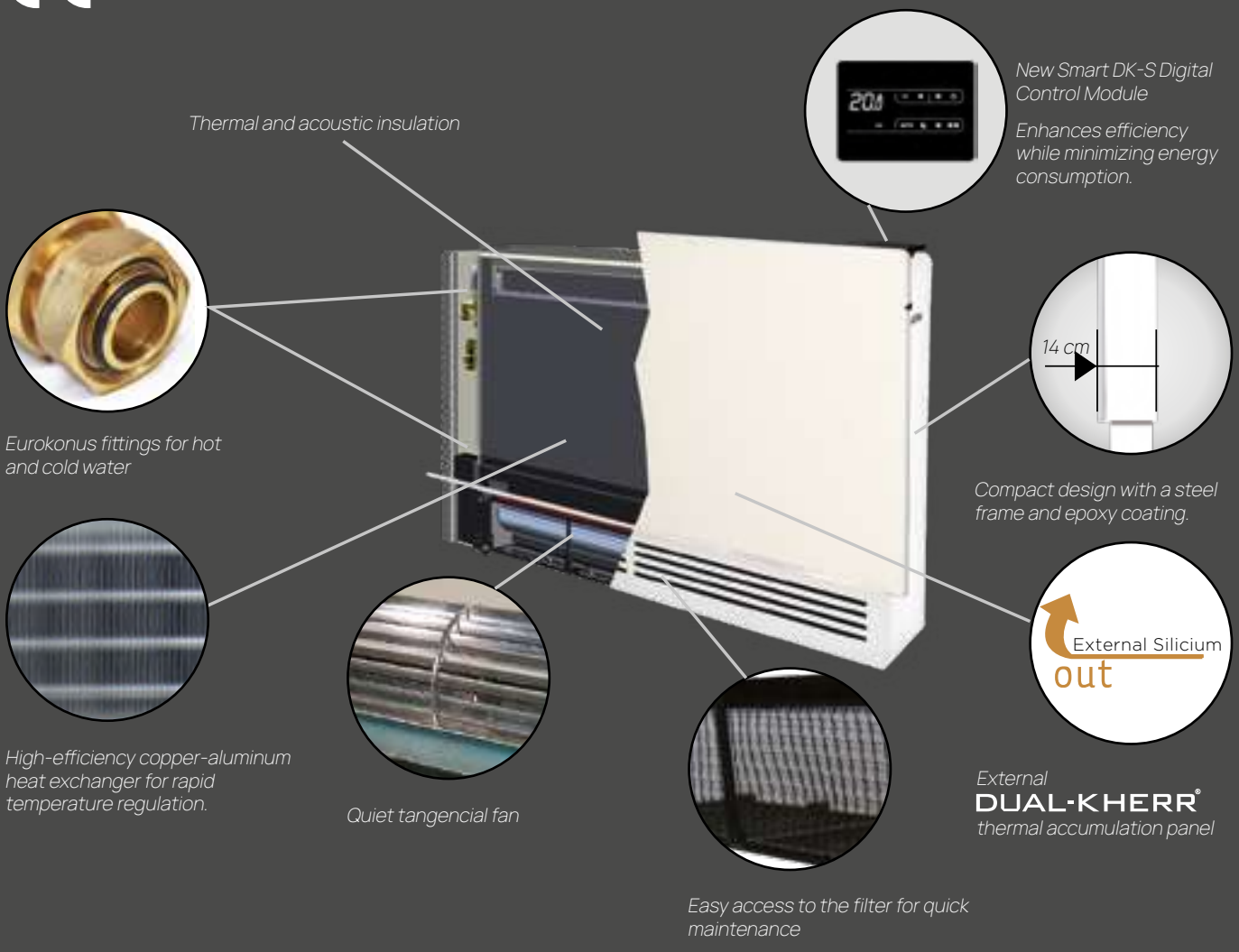
- Controls fan speed, adjusting airflow as required.
- Operates the additional heating element of the panel when necessary.
- Activates the electro valve to optimize generator performance. Intuitive and easy-to-use LCD display

Manual configuration for Winter or Summer modes:

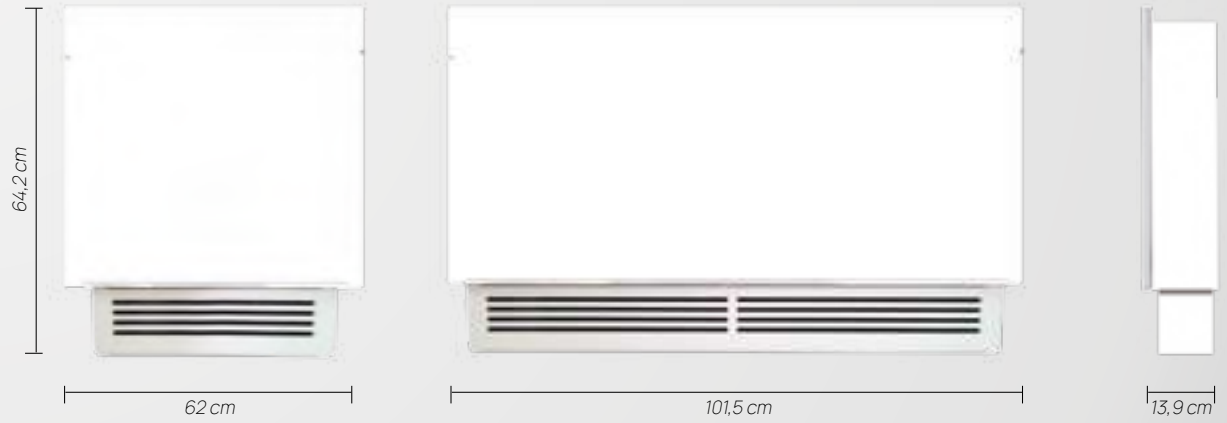
- Manual adjustment of fan speed
- Manual adjustment of temperature
- Manual activation of the additional heating element
- Sleep Mode: reduces fan speed and noise level for better comfort
- Automatic Mode: all settings are automatically adjusted according to the selected temperature

Product Features

CE



Dimensions and Technical Specifications



With only two models we can adapt to practically any dimension in domestic or commercial area.

Characteristics		INVERTER 2000 IR	INVERTER 6000 IR
Total cooling power (a)	W	830	2650
Sensible cooling power	W	620	1960
Water flow rate	l/h	143	456
Hydraulic pressure drops	kPa	7,2	22,5
Heating capacity with inlet water at 55°C (b)	W	1090	3190
Heating capacity with inlet water at 50°C + DK	W	1240	3440
Water flow rate (50°C inlet water)	l/h	143	456
Hydraulic pressure drops (50°C inlet water)	kPa	5,7	16,3
Heating capacity without ventilation (50°C)	W	210	291
Heating capacity with inlet water at 70°C ΔT10 (c)	W	1890	5470
Heating capacity with inlet water at 70°C ΔT10 + DK	W	2040	5720
Water flow rate (70°C inlet water ΔT10)	l/h	162	471
Hydraulic pressure drops (70°C inlet water ΔT10)	kPa	6,7	16,1
Heating capacity without ventilation (70°C)	W	322	447

a. 7 °C water inlet in the exchanger, 12 °C water outlet off the exchanger, 27 °C ambient air with dry pressure bulb and 19 °C with damp bulb (UNE EN 1397).
b. 50 °C water inlet in the exchanger, same water flow as in cooling mode, 20 °C ambient air (UNE EN 1397).
c. 70 °C water inlet in the exchanger, 60 °C water outlet off the exchanger, 20 °C ambient air.

HYDRAULIC CHARACTERISTICS			
Content of water in heat exchanger	L	0,47	1,13
Max operating pressure	bar	10	10
Hydraulic connections	inches	Eurokonus 3/4	Eurokonus 3/4
AIR FLOW DATA (d)			
Max air flow rate	m³/h	162 (*)	461 (*)
Medium air flow rate (AUTO)	m³/h	113 (*)	367 (*)
Min fan speed air flow rate	m³/h	55 (*)	248 (*)
Max available static pressure	Pa	10	13

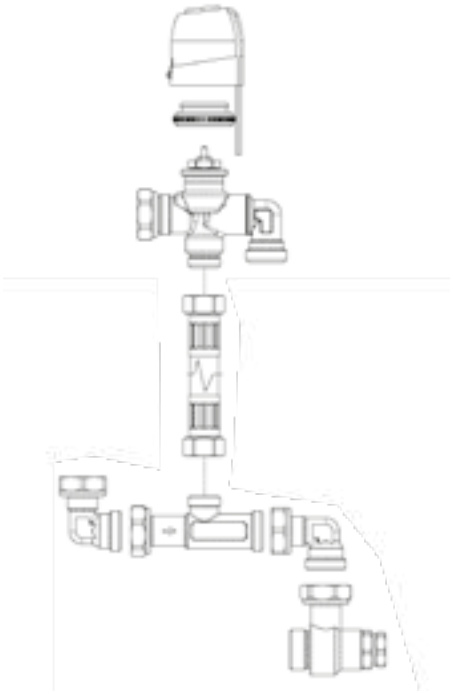
d. Airflow rate measured with clean filters.
(*) Cooling mode air flow rate. The heating mode air flow rate is :20 m³/h greater for models 2000 IR and 40 m³/h ,greater for models 6000 IR.

ELECTRICAL DATA			
Voltage / Phases / Frequency	V/ph/Hz	230/1/50	230/1/50
Max power consumption	W	12,9	21,8
Max current	A	0,11	0,18
Power input at min speed	W	6	14
SOUND LEVEL (e)			
Sound level max air flow	dB(A)	39,4	42,2
Sound level medium air flow	dB(A)	33,2	34,4
Sound level min air flow	dB(A)	24,2	25,6
Sound level standard temp	dB(A)	18,8	22,3

e. Sound pressure measured in a semi-anechoic chamber according to ISO 7779.

DIMENSIONS AND WEIGHTS			
Total Length	mm	620	1015
Total Height	mm	642	642
Total Depth	mm	139	139
Net weight	Kg	22	34

Accessories:



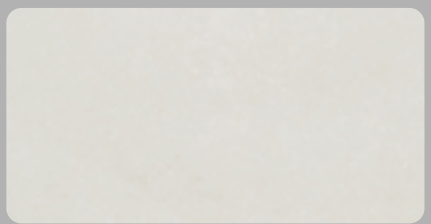
Electronic installation kit with bypass
Reference
CO53051

Transportation details

Model	Power (W)	Packaging dimensions (cm)	Weight (kg)	Units per pallet*	
				FTL	LTL
Inverter 2000 IR	2040	70x75x25	22	8	7
Inverter 6000 IR	5720	110x75x25	34,2	8	6

**FTL: Full Truckload. LTL: Less than Truckload.*

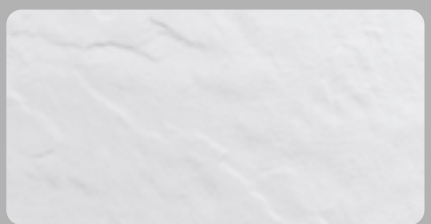
Recommended finishes:



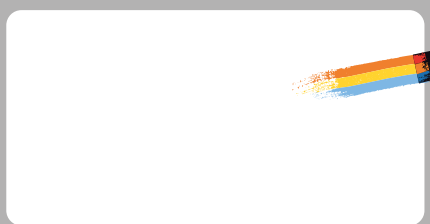
White Limestone

Terra Limestone

Dark Natura



White Slate



White Quartz - Mimetic

The White Quartz finish can be painted in any color of your choice by applying a waterproof surface available at any paint store.

Energy saving

Titan Ecotherm

The natural evolution in domestic hot water systems

A compact domestic hot water system offering high capacity and maximum efficiency.

Designed for easy maintenance, with full front access allowing installation inside kitchen or bathroom furniture.

Advanced insulation ensures maximum efficiency and precise temperature control.

Equipped with a large magnesium anode to extend the lifespan of Titan.

The only system of its kind with additional thermostatic valve included and dual power output, reducing heat-up time.

Optimized for both individual and serial installations to maximize performance.

ECOTHERMO ONE

Single installation

Recommended for families of up to four people

- Up to 100 liters of hot water*
- 30-liter capacity
- **€0.10 per day** to maintain water temperature
- **€0.07 per shower**

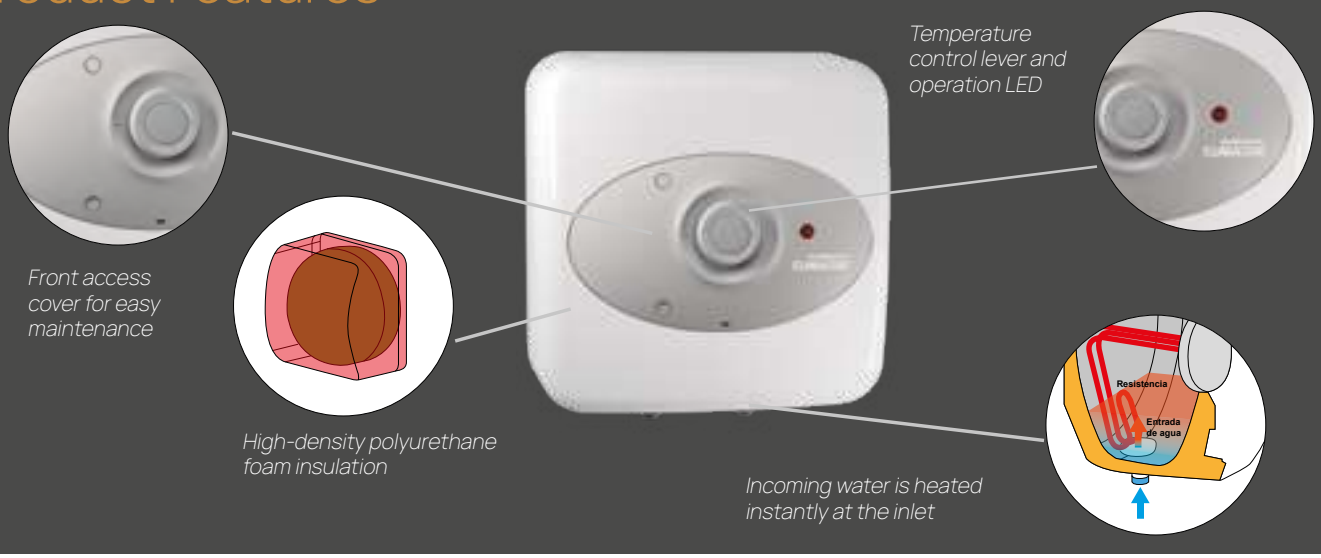
ECOTHERMO DUAL

2-device serial installation

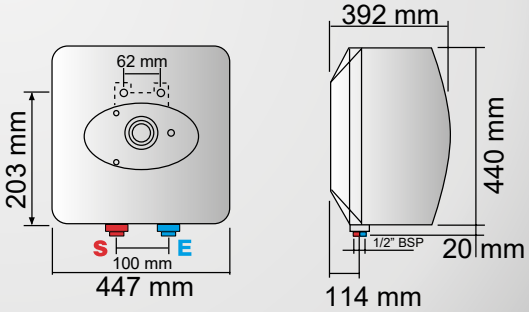
Recommended for families of up to ten people

- Up to 250 liters of hot water*
- 60-liter capacity
- **€0.20 per day** to maintain water temperature
- **€0.09 per shower**

Product Features



Dimensions and Technical Specifications



Model	Ecothermo ONE	Ecothermo Dual
Capacity (L)	30	30+30
Standard use equivalent output (L)	100 *	250 *
Rated voltage (V)	230	230
Rated power (kW)	**3**	**3+3**
Thermal dispersion 65ºC kWh/24h	0,7	1,4
Max. working pressure (BAR)	8	8
1 shower refill time	Instant	instant
First fill up time (min)	29	29
Hot water maintenance (kW/24h)	0,7	1,4
Net weight (Kg)	12,8	25,6
Product reference	30EC30L	30EC60L
1 thermostatic valve	Included	Included

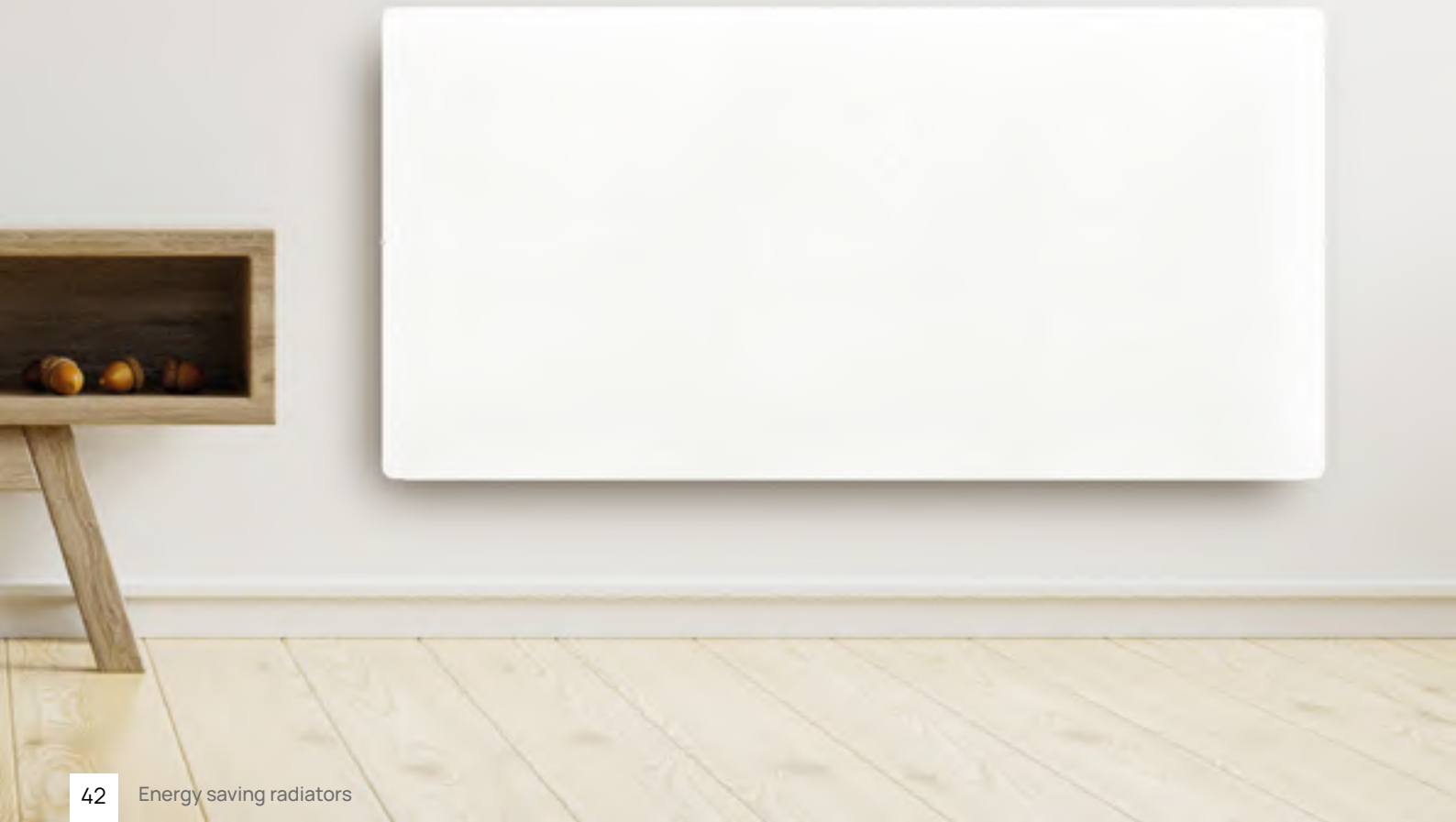
** Under the following conditions: mains water temperature 18ºC, internal water heater temperature 75ºC, mixed water temperature 38ºC, distance from the water heater to the outlet 3 m, flow rate 6 L/min, draw-off time 16.8 minutes, actual output 99.8 liters.*

*** Estimated cost based on an electricity rate of €0.20 per kWh.*

DUAL-KHERR

Finishes

Our units feature a front panel with a natural stone texture, available in an exclusive selection of finishes, allowing seamless integration into any environment.



White Quartz

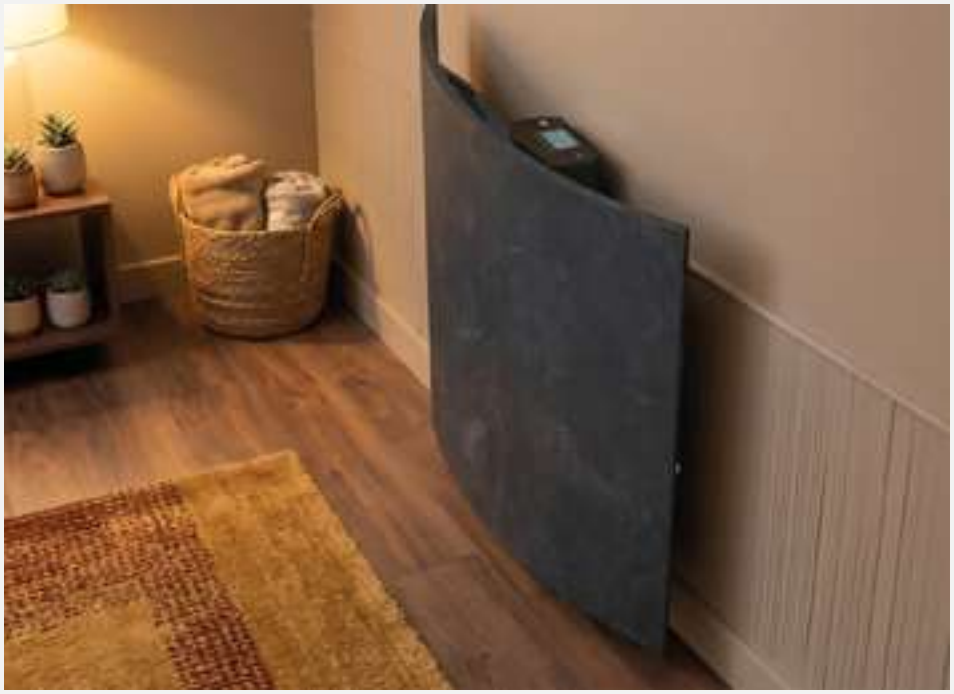
The White Quartz finish can be painted in any desired color and texture. It is important to apply a primer to ensure proper adhesion to this non-absorbent surface, which is designed to withstand temperatures of up to 70°C. Please consult your painter or paint supplier.

White Slate

Dark Nature

Silex Pearl

Silex Dark



CLIMASTAR

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TC 12316