ILS GROUP SRL

Produzione pietra lavica, riscaldamento ecologico, risparmio energetico

RADIANT HEATING PANELS

MAX

MADE IN ITALY

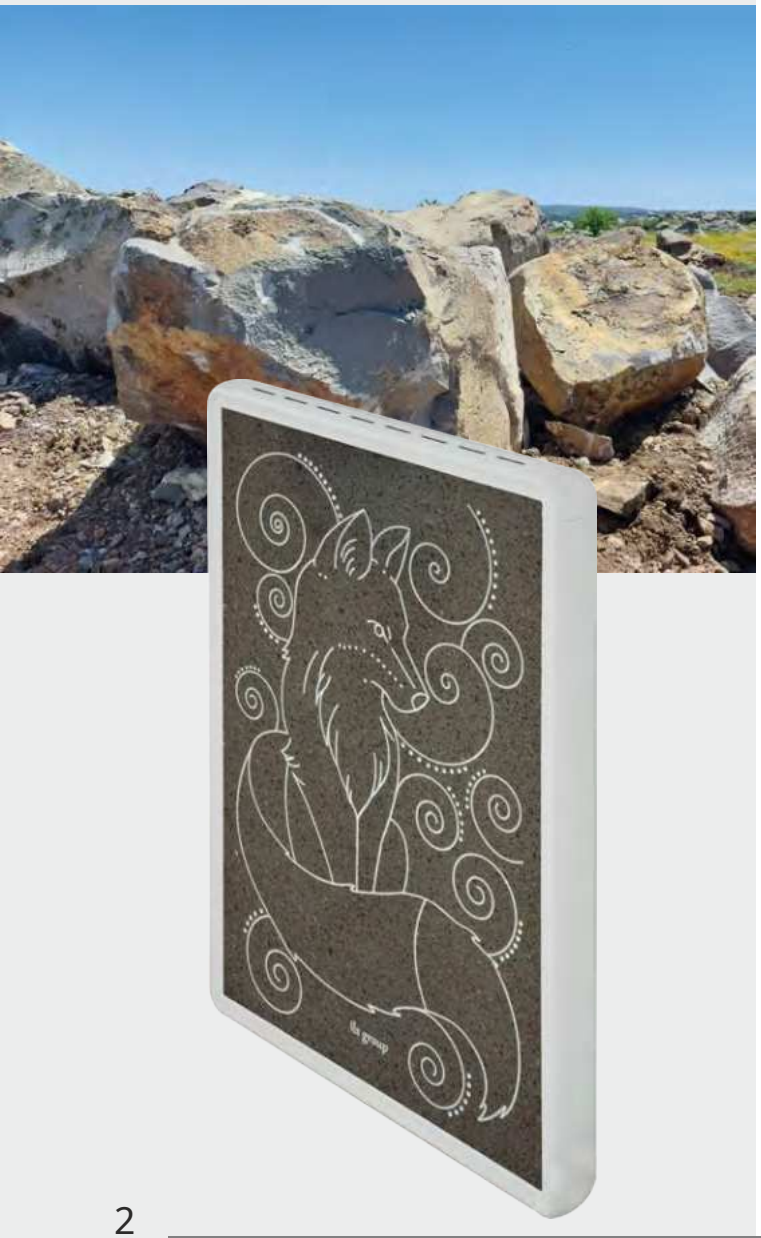
UNIVERSITÀ DI TRENTO
Dipartimento di Ingegneria Industriale

GRAMMD

Certificazione di sicurezza IMQ

CE ®

ILS Group S.r.l. was created to revitalize the production and sale of handcrafted lava stone products. With solid experience and technical know-how, we support engineers, architects, and designers with tailor-made solutions.
Lava stone offers endless applications, like
Ecological heating or,
Indoor and outdoor furniture for both public and private spaces.
Every product is exclusive and customizable, reflecting the versatility and beauty of this ancient material.



The radiant heating panel known as MAX features a truly innovative design and is the result of years of experience by ILS GROUP Srl, a company specialized in developing advanced components and systems for residential and commercial heating. MAX is not just efficient—it delivers remarkable thermal performance, receiving outstanding technical evaluations. What makes it even more extraordinary is that its high thermal output continues even after the unit is turned off, thanks to its heat-retaining lava stone plates. These plates are made of basalt lava, a natural material extracted from a submarine volcanic formation over 20 million years old. This rare stone can withstand temperatures of up to 1,000°C without any alteration, a property that no other material on the market can match. Thanks to these unique qualities, MAX ensures energy savings of over 65%, making it a one-of-a-kind solution in the world of sustainable and ecological heating.

KEY BENEFITS

Innovative design

High energy saving

Dual heating system: radiant and natural convection

Exclusive decorative element

Can be enhanced with a wide range of refined finishes

Eco-friendly and sustainable (Green)

The colors shown in this catalog may vary as they are made exclusively by hand.

HOW IT WORKS

When the heating element embedded within the panel's layered structure is powered by electricity, it warms the two lava stone plates surrounding it. These plates then release heat through two natural processes:
Natural Convection: The air around the panel warms up, rises through the metallic structure, and is released through the upper part of the panel.
Radiation: The front lava stone plate radiates heat directly outward, warming the space in front of it naturally and evenly.
Thanks to the high thermal mass of lava stone, the heat is gradually accumulated and released slowly, ensuring a stable and uniform temperature over time—even after the panel has been turned off.
This heating method is especially beneficial for health: it does not involve forced air movement and the heating element does not burn dust particles in the room.
The temperature is controlled via an electronic board developed by ILS.
Thermocouple sensors placed behind the front panel monitor and regulate the optimal heat output.

Frame colors

- Light grey
- Blackish grey

Decoration colors

- Bronze
- White
- Black
- Cyan

SUN AND MOON

Heater type:
Energy storage system (ESS)

Characteristics:
Lava stone plates and an electric heating element are housed within a metal framework, enclosed at the front by a decorated lava stone panel finished with colored ceramic enamels.The entire structure is framed on the sides, top, and bottom with painted aluminum, and backed by a steel panel.

Heating system:
Thermal accumulation system based on radiant and natural convection heating.

Height (H)	78.5 cm
Width (L)	54 cm
Depth (P)	8.28 cm
Weight (Kg)	45
Power (W)	2000
Voltage (V)	230-50Hz

WOMAN

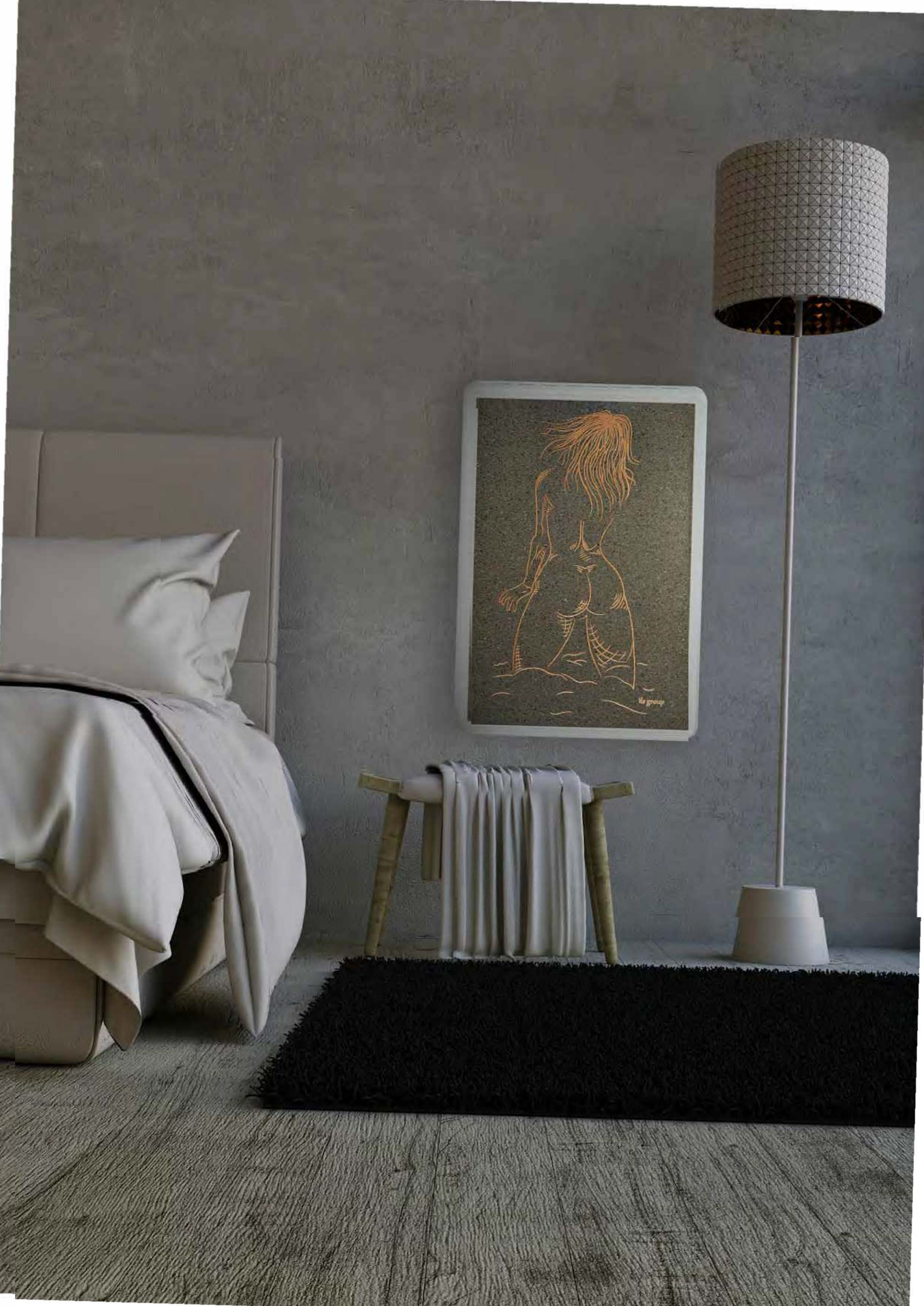
Heater type:
Energy storage system (ESS)

Characteristics:
Lava stone plates and an electric heating element are housed within a metal framework, enclosed at the front by a decorated lava stone panel finished with colored ceramic enamels.The entire structure is framed on the sides, top, and bottom with painted aluminum, and backed by a steel panel.

Heating system:
Thermal accumulation system based on radiant and natural convection heating.

Height (H)	78.5 cm
Width (L)	54 cm
Depth (P)	8.28 cm
Weight (Kg)	45
Power (W)	2000
Voltage (V)	230-50Hz


Ils group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FLORAL

Heater type:
Energy storage system (ESS)

Characteristics:
Lava stone plates and an electric heating element are housed within a metal framework, enclosed at the front by a decorated lava stone panel finished with colored ceramic enamels.The entire structure is framed on the sides, top, and bottom with painted aluminum, and backed by a steel panel.

Heating system:
Thermal accumulation system based on radiant and natural convection heating.

Height (H)	78.5 cm
Width (L)	54 cm
Depth (P)	8.28 cm
Weight (Kg)	45
Power (W)	2000
Voltage (V)	230-50Hz

FOX

Heater type:
Energy storage system (ESS)

Characteristics:
Lava stone plates and an electric heating element are housed within a metal framework, enclosed at the front by a decorated lava stone panel finished with colored ceramic enamels.The entire structure is framed on the sides, top, and bottom with painted aluminum, and backed by a steel panel.

Heating system:
Thermal accumulation system based on radiant and natural convection heating.

Height (H)	78.5 cm
Width (L)	54 cm
Depth (P)	8.28 cm
Weight (Kg)	45
Power (W)	2000
Voltage (V)	230-50Hz

BAROQUE

Heater type:
Energy storage system (ESS)

Characteristics:
Lava stone plates and an electric heating element are housed within a metal framework, enclosed at the front by a decorated lava stone panel finished with colored ceramic enamels.The entire structure is framed on the sides, top, and bottom with painted aluminum, and backed by a steel panel.

Heating system:
Thermal accumulation system based on radiant and natural convection heating.

Height (H)	78.5 cm
Width (L)	54 cm
Depth (P)	8.28 cm
Weight (Kg)	45
Power (W)	2000
Voltage (V)	230-50Hz

SICILIAN HEAT

Heater type:
Energy storage system (ESS)

Characteristics:
Lava stone plates and an electric heating element are housed within a metal framework, enclosed at the front by a decorated lava stone panel finished with colored ceramic enamels.The entire structure is framed on the sides, top, and bottom with painted aluminum, and backed by a steel panel.

Heating system:
Thermal accumulation system based on radiant and natural convection heating.

Height (H)	78.5 cm
Width (L)	54 cm
Depth (P)	8.28 cm
Weight (Kg)	45
Power (W)	2000
Voltage (V)	230-50Hz

* Color customization
on request

NATURE

WINTER SONG

Heater type:
Energy storage system (ESS)

Characteristics:
Lava stone plates and an electric heating element are housed within a metal framework, enclosed at the front by a decorated lava stone panel finished with colored ceramic enamels.The entire structure is framed on the sides, top, and bottom with painted aluminum, and backed by a steel panel.

Heating system:
Thermal accumulation system based on radiant and natural convection heating.

Height (H)	78.5 cm
Width (L)	54 cm
Depth (P)	8.28 cm
Weight (Kg)	45
Power (W)	2000
Voltage (V)	230-50Hz

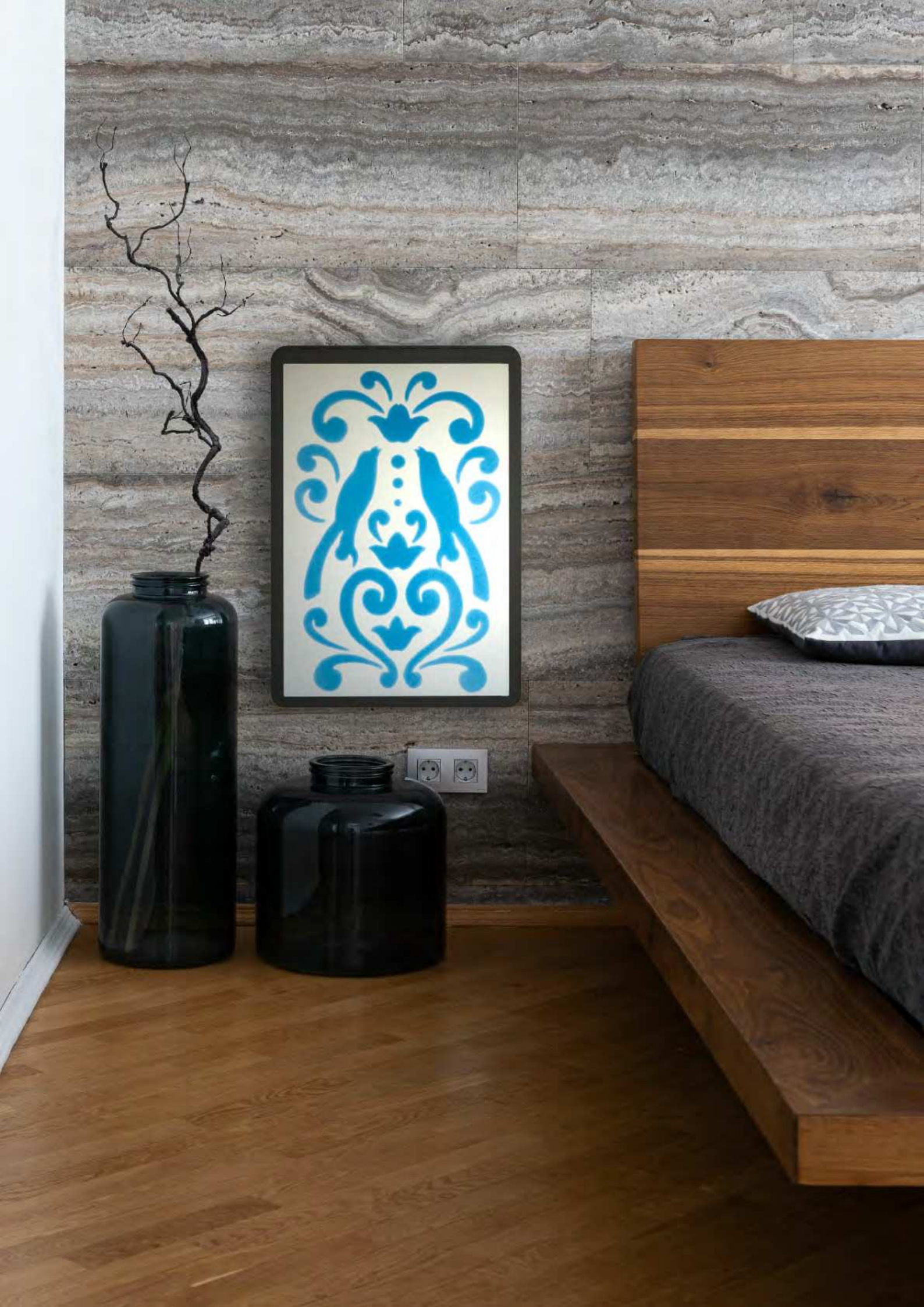
SUMMER SONG

Heater type:
Energy storage system (ESS)

Characteristics:
Lava stone plates and an electric heating element are housed within a metal framework, enclosed at the front by a decorated lava stone panel finished with colored ceramic enamels.The entire structure is framed on the sides, top, and bottom with painted aluminum, and backed by a steel panel.

Heating system:
Thermal accumulation system based on radiant and natural convection heating.

Height (H)	78.5 cm
Width (L)	54 cm
Depth (P)	8.28 cm
Weight (Kg)	45
Power (W)	2000
Voltage (V)	230-50Hz



WINTER RAYS

Heater type:
Energy storage system (ESS)

Characteristics:
Lava stone plates and an electric heating element are housed within a metal framework, enclosed at the front by a decorated lava stone panel finished with colored ceramic enamels.The entire structure is framed on the sides, top, and bottom with painted aluminum, and backed by a steel panel.

Heating system:
Thermal accumulation system based on radiant and natural convection heating.

Height (H)	78.5 cm
Width (L)	54 cm
Depth (P)	8.28 cm
Weight (Kg)	45
Power (W)	2000
Voltage (V)	230-50Hz

BLOSSOMED WARMTH

Heater type:
Energy storage system (ESS)

Characteristics:
Lava stone plates and an electric heating element are housed within a metal framework, enclosed at the front by a decorated lava stone panel finished with colored ceramic enamels.The entire structure is framed on the sides, top, and bottom with painted aluminum, and backed by a steel panel.

Heating system:
Thermal accumulation system based on radiant and natural convection heating.

Height (H)	78.5 cm
Width (L)	54 cm
Depth (P)	8.28 cm
Weight (Kg)	45
Power (W)	2000
Voltage (V)	230-50Hz

HAMMERED RAYS

Heater type:
Energy storage system (ESS)

Characteristics:
Lava stone plates and an electric heating element are housed within a metal framework, enclosed at the front by a decorated lava stone panel finished with colored ceramic enamels.The entire structure is framed on the sides, top, and bottom with painted aluminum, and backed by a steel panel.

Heating system:
Thermal accumulation system based on radiant and natural convection heating.

Height (H)	78.5 cm
Width (L)	54 cm
Depth (P)	8.28 cm
Weight (Kg)	45
Power (W)	2000
Voltage (V)	230-50Hz

LAVA SUN

Stove type:
Electric storage system

Heater type:
Energy storage system (ESS)

Characteristics:
Lava stone plates and an electric heating element are housed within a metal framework, enclosed at the front by a decorated lava stone panel finished with colored ceramic enamels.The entire structure is framed on the sides, top, and bottom with painted aluminum, and backed by a steel panel.

Heating system:
Thermal accumulation system based on radiant and natural convection heating.

Height (H)	78.5 cm
Width (L)	54 cm
Depth (P)	8.28 cm
Weight (Kg)	45
Power (W)	2000
Voltage (V)	230-50Hz

* Personalization and colored ceramicization on request

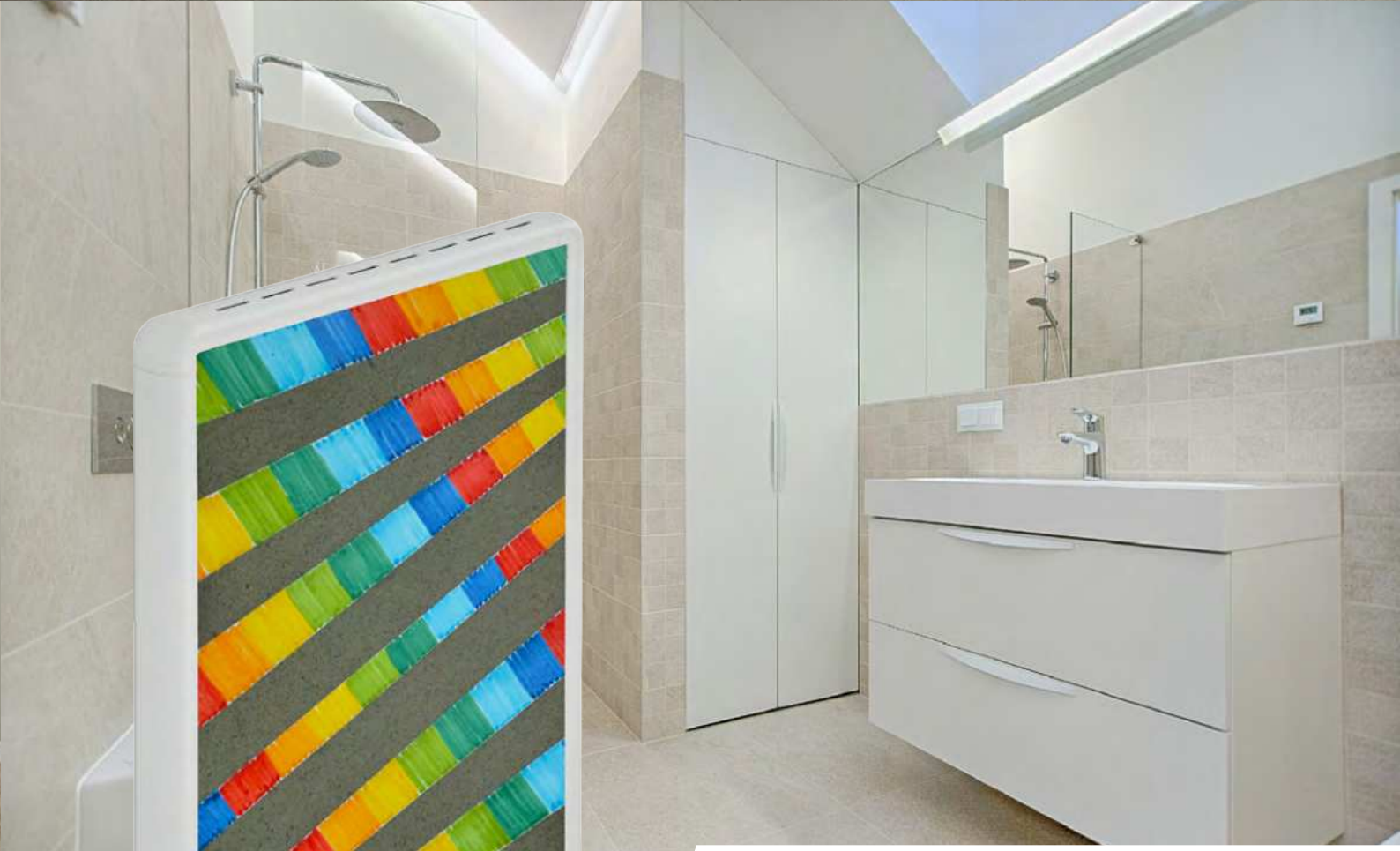
RAINBOW SUN

Heater type:
Energy storage system (ESS)

Characteristics:
Lava stone plates and an electric heating element are housed within a metal framework, enclosed at the front by a decorated lava stone panel finished with colored ceramic enamels.The entire structure is framed on the sides, top, and bottom with painted aluminum, and backed by a steel panel.

Heating system:
Thermal accumulation system based on radiant and natural convection heating.

Height (H)	78.5 cm
Width (L)	54 cm
Depth (P)	8.28 cm
Weight (Kg)	45
Power (W)	2000
Voltage (V)	230-50Hz



SOLAR RAYS

Characteristics:
Slabs of lava basalt and electrical resistance held by a metal structure, contained by a front slab, in lava basalt, decorated with colored ceramic enamels.
The elements are contained laterally, above and below by a painted aluminium frame and at the rear by a steel sheet.

Heating system:
Accumulating heating system for radiation and natural convection.

Height (H)	78.5 cm
Width (L)	54 cm
Depth (P)	8.28 cm
Weight (Kg)	45
Power (W)	2000
Voltage (V)	230-50Hz

UNIQUE, EXCLUSIVE AND SUSTAINABLE QUALITY

"Add a Touch of Nature to Your Life: MAX warms your world with the power of volcanic stone — and brings your dream to life!"

MAX offers the following benefits:

1 - Eliminate humidity.
2 - Acts as a natural dehumidifier
3 - Purifies the air
4 - Prevents mold formation.
5 - Provides consistent, enveloping warmth
6 - Carries no fire risk
7 - Requires no chimney or exhaust system
8 - Integrates easily with photovoltaic systems—no construction work needed

Thanks to these features, MAX ensures comfort and peace of mind, significantly improving the quality of life for those who use it.

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GRAND

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