ALCHEMY RANGE

WATER · HEAT · PURITY

PRODUCT GUIDE 2026

# Infrared heating

## *the future of heating*

Heating films, underfloor kits, in-wall bathroom panels and wall-mounted infrared heaters for Irish homes and businesses.



# Our heating *systems*

One supplier for the whole infrared package: the heating element, the insulation, the controls and the finished wall or floor.

01

**Infrared heating films**

Four film series for laminate, screed, vinyl and 24 V use. Pages 4–6

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**Ready-to-install floor kits**

Film, thermostat and fitting accessories in one box. Page 7

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**Bathroom and tile heating mat**

150 W/m² self-adhesive mat for under tiles. Page 8

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**Thermostats and insulation**

Manual, programmable and Wi-Fi control; underlay boards and foam. Pages 9–10

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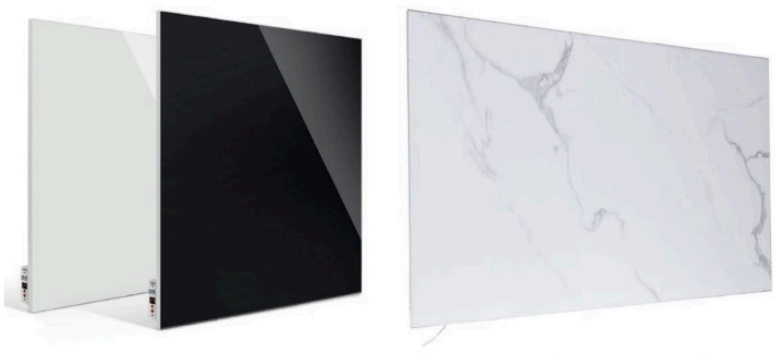
**In-wall bathroom heater**

12 mm panel hidden behind the wall and tiles. Pages 12–13

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**Steel and ceramic wall panels**

Wall, ceiling or mobile infrared heaters, 300 W to 1000 W. Pages 14–17



# Why infrared *heating*

## Heat you feel, not hot air

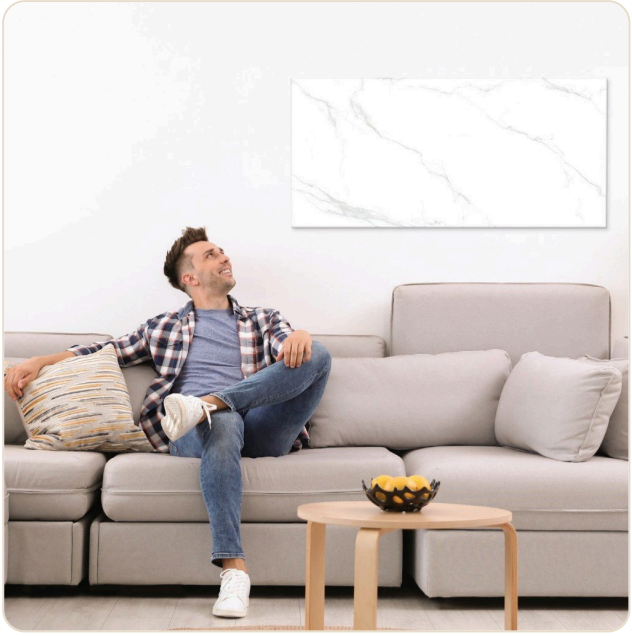
Infrared panels warm people, objects and walls directly with pure infrared. Infrared is part of natural sunlight. It gives an even temperature and a comfortable level of humidity.

## Compared with convector heaters

Traditional convector heaters need more power, so they use more electricity. They also move heated air around the room, which lifts dust and mites.

## Up to 30% less energy

Infrared heaters use up to 30% less energy than traditional electric heaters, and the carbon heating matrix in the latest panels saves more than 30%.



**30%**
less energy than traditional electric radiators

**0**
air movement, so no circulating dust or mites

**0**
servicing needed after installation

# Heating *films*

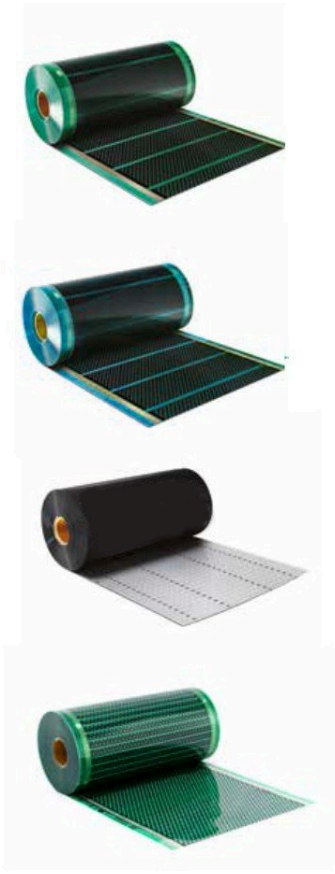
## The best heating films

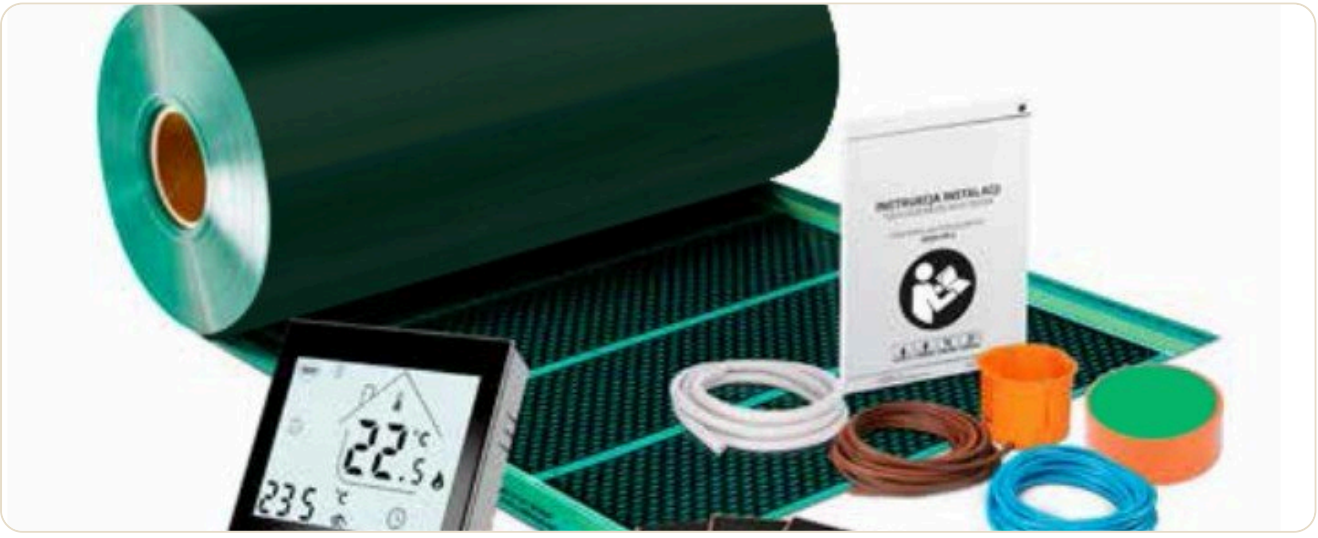
They set the course for modern electric heating, which is:

- comfortable
- attractively priced
- effective
- eco-friendly

## Versatile applications

Our heating films come in four specialised series and two voltages: 230 V and 24 V. That makes them suitable for almost every residential and public space: under screed, under SPC laminate and vinyl panels, under multi-layered boards, and in walls, ceilings and vehicles.

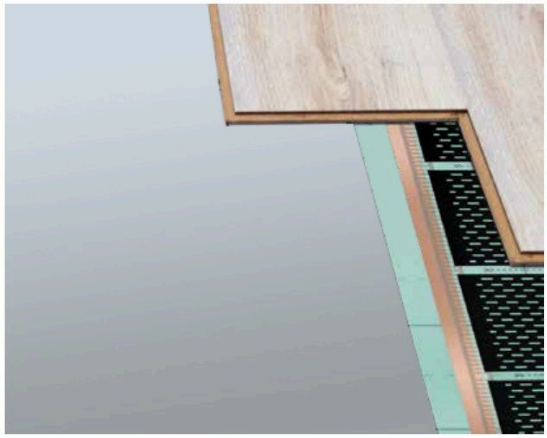




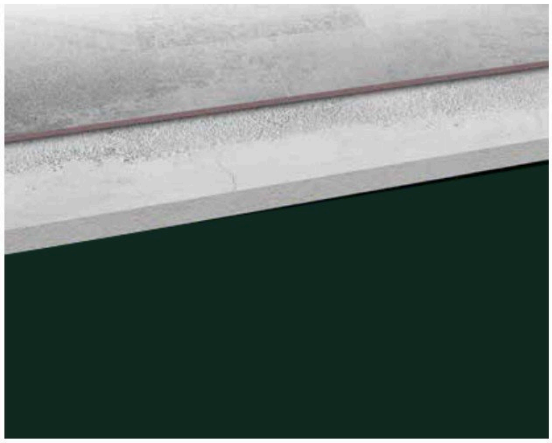

Heating film with thermostat and fitting accessories

# 5 facts you need *to know*

- **It works like sun power.** Infrared heating works directly on floors, walls, ceilings or even feet. It does not cause air movement, so it does not attract dust and mites, and it has a positive effect on comfort and the microclimate of a room.
- **Maintenance-free.** After installation the system needs no intervention for its whole life, which means greater comfort and less environmental impact.
- **Uniform, invisible heating.** No cold zones means less dampness and a lower risk of mould. The heating covers about 80% of the surface while staying invisible.
- **Tailored power.** Films are matched to the volume and the level of thermal insulation of each room.
- **Proven design.** The film design is the result of many years of experience in producing and installing heating films.

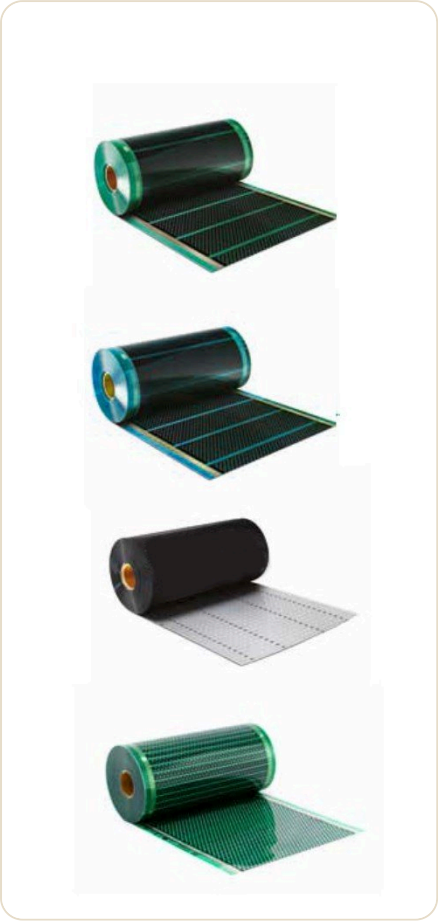


Film under laminate flooring



Film under screed

# Heating films *series*



| Series | Thickness | Use | Warranty |
|---|---|---|---|
| 1 | 0.338 mm | Laminate panels, mirrors, walls and ceilings | **10 years** |
| 2 | 0.458 mm | Under screed | **25 years** |
| 3 | 0.500 mm | SPC vinyl panels, multi-layer boards | **30 years** |
| 4 | 0.338 mm | 24 V installations: houseboats, campers | **10 years** |

Series 1 to 3 are 230 V. Series 4 is 24 V. Warranty terms are provided by Alchemy Range.

**Under laminate and walls (0.338 mm)**
The whole system takes up less than 0.7 cm under the panels. Warmth under the feet is felt within minutes of switching on.

**Under screed (0.458 mm)**
Reinforced film for any floor finish. Fitted under anhydrite or cement screed it stores heat and releases it to the surface.

# Ready to install *heating film kits*

Start up an infrared heating system quickly and efficiently in the room of your choice. To choose the right kit, select:

- **Type of heating film** suitable for the planned floor
- **Size of the film** suitable for the planned location
- **Film power** suitable for the building's level of thermal insulation
- **Thermostat model**: manual, programmable or Wi-Fi / ZigBee, supported by the Smart Life and Tuya Smart apps



Each kit contains all the necessary accessories in sufficient quantity, with instructions.

Vapour barrier film, heat-insulating underlay and tools are not included. The connection to the mains must be made by a suitably registered electrician.



## Single-room underfloor heating kit

The DIY package is a modern, electrically powered, flexible infrared heater for surface heating of rooms in houses, apartments and offices. It installs in floors, walls or ceilings.

It can be the main or a supplementary heating system. Simple and reliable assembly, no service required, very long life and economical running make the film a strong choice for many applications.

# About the *heating mat*

For bathrooms, kitchens and any tiled floor. The self-adhesive mat goes straight under tiles on an existing screed.

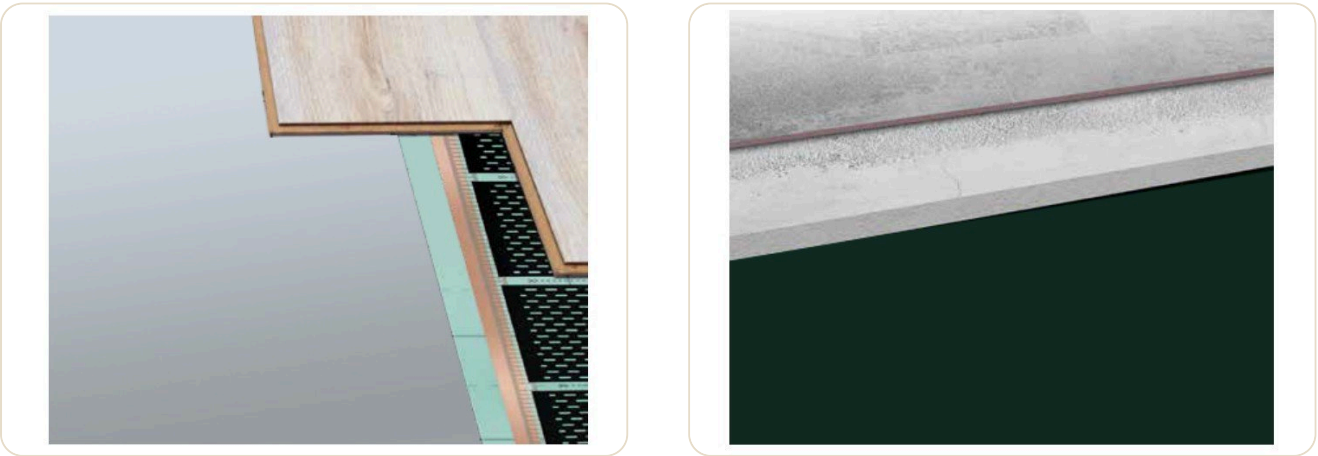
- **Under tiles.** Install directly under porcelain stoneware, ceramic tile or stone where there is already a screed.
- **FEP (Teflon) insulation** gives better performance and durability than conventional PVC insulation.
- **150 W/m² output,** suitable for modern, well-insulated rooms.
- **Factory-fitted sizes** for different rooms, so the heating cable is never cut. This gives the highest durability.
- **Multi-wire weave** with Teflon insulation resists point overheating up to 200°C.
- **Self-adhesive and only 3 mm thick,** so installation is quick and the system takes minimal space.
- **No servicing.** A one-time investment in economical, zero-emission heating.

**150 W/m²**
output

**3 mm**
mat thickness

**200 °C**
point-overheat resistance

**FEP**
Teflon insulation



Heating film build-ups: under laminate (left) and under screed (right)

# What to know about *thermostats*

- **Cost-effective.** Programme the thermostat to set the right temperature for each room and time. Tracking energy use in a mobile app (Smart Life or Tuya Smart) lets you fine-tune the settings.
- **Set-up.** Select the sensors, calibrate the read-out temperature with an independent thermometer, and limit the temperature of the heating surface. Then link the thermostat to the app, or programme it on the thermostat itself.
- **Colours.** Most thermostats come in white and black to match the room.
- **Two external sensors.** This version can be fitted anywhere outside the controlled room. It suits bathrooms, where the heat source is completely invisible and the heat is controlled from an app.




Wi-Fi / ZigBee thermostat with app control

**Manual**
Simple dial or touch control for one room.

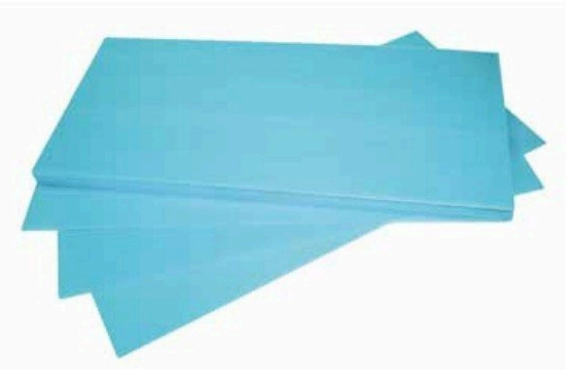
**Programmable**
Set temperatures for each room and time of day.

**Wi-Fi / ZigBee**
App control and energy tracking with Smart Life or Tuya Smart.

# Thermal insulation *for heating*

## Extruded polystyrene

With a hardness of up to 300 kPa, extruded polystyrene gives constant, stable conditions for the heating system under more demanding floors, and proper thermal insulation from the substrate. This is crucial for the energy efficiency of the whole system and its service life.





## Polyethylene foam insulation mat

Recommended as an underlay for the heating system under laminate panels. It does not wrinkle after laying and is easy to use. High-quality cellular polyethylene foam, laminated on one side, gives proper insulation from the substrate and stable conditions for the system.

# Infrared *heaters*

## Proven solution

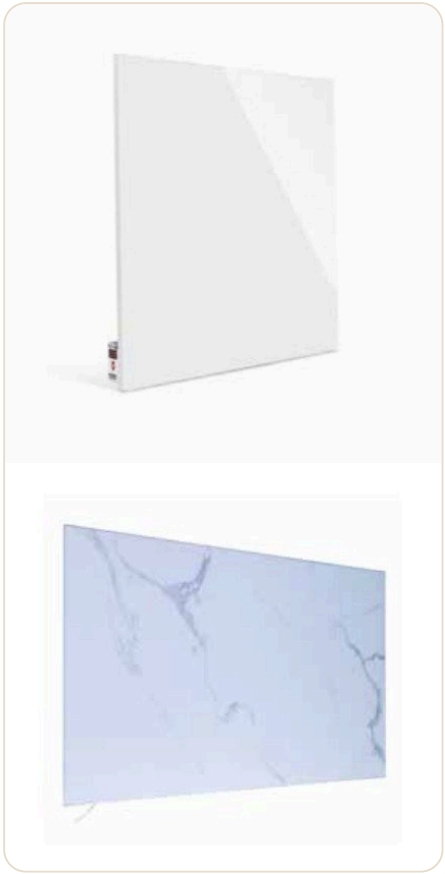
Infrared heaters use a robust construction and a tungsten heating matrix, saving up to 30% in energy compared with traditional electric heaters. They have become popular across Europe, for quality and ease of installation, as a main or additional heater.

## Better efficiency

The latest generation uses a more advanced carbon heating matrix, which cuts energy use by more than 30% against traditional electric heaters. New surface types are available, including synthetic plastic with a metal frame.

## Design and warranty

Casings are white powder-coated metal heated at 200°C, ceramic in stylish colours, or black and white glass. They are under 2 cm thick, mount vertically or horizontally, and carry a **5 year warranty**.



Glass and ceramic infrared heaters



# In-wall
# *bathroom heater*

A 12 mm infrared panel that disappears into the wall. Designed for in-wall or drywall installation, with minimal impact on your interior design.

- **Invisible heat.** The 12 mm panel is hidden in the wall, so wall surfaces stay completely flat.
- **Built-in control.** An integrated NTC temperature sensor and rear insulation direct heat into the room for accurate panel and room temperature adjustment.
- **Many uses.** One panel for a small room, several panels for larger spaces, or a bathroom heater with towel drying.
- **Various sizes and power levels** to suit the room.





# Fit at any stage *of construction*



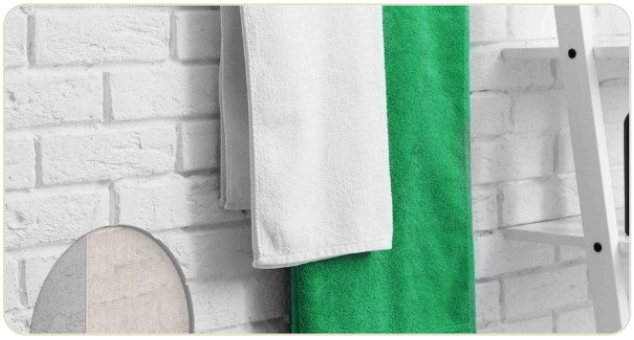
The in-wall panel can be installed at three stages of interior finishing:

- before plastering
- after plastering
- in the drywall system, during installation of the plasterboard

After installation the wall can be finished with ceramic, stoneware, stone or quartz tiles.

## Towel drying, no radiator

With dedicated wall-mounted towel bars in black, silver or gold, the in-wall panel replaces a traditional bathroom radiator. You free the bathroom of heavy steel heating and keep the function of drying and storing towels.



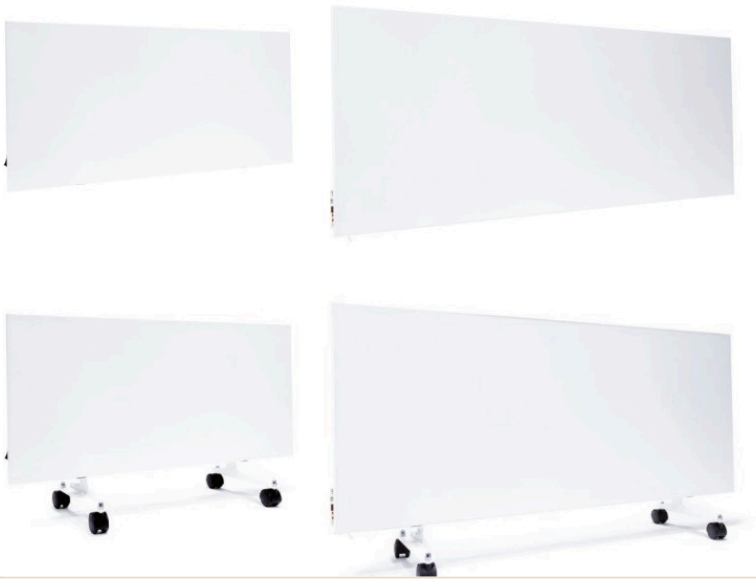


## Panel models

| Power | Size (mm) | Voltage |
|---|---|---|
| **110 W** | 595 × 1160 × 12 | 230 V |
| **70 W** | 595 × 1160 × 12 | 230 V |
| **55 W** | 345 × 1160 × 12 | 230 V |
| **35 W** | 345 × 1160 × 12 | 230 V |

# Steel wave *heating panels*

Practical, efficient panels with a powder-coated metal surface, 15 mm thick. Mount on a wall, on a ceiling, or on mobile wheeled frames (frames sold separately).

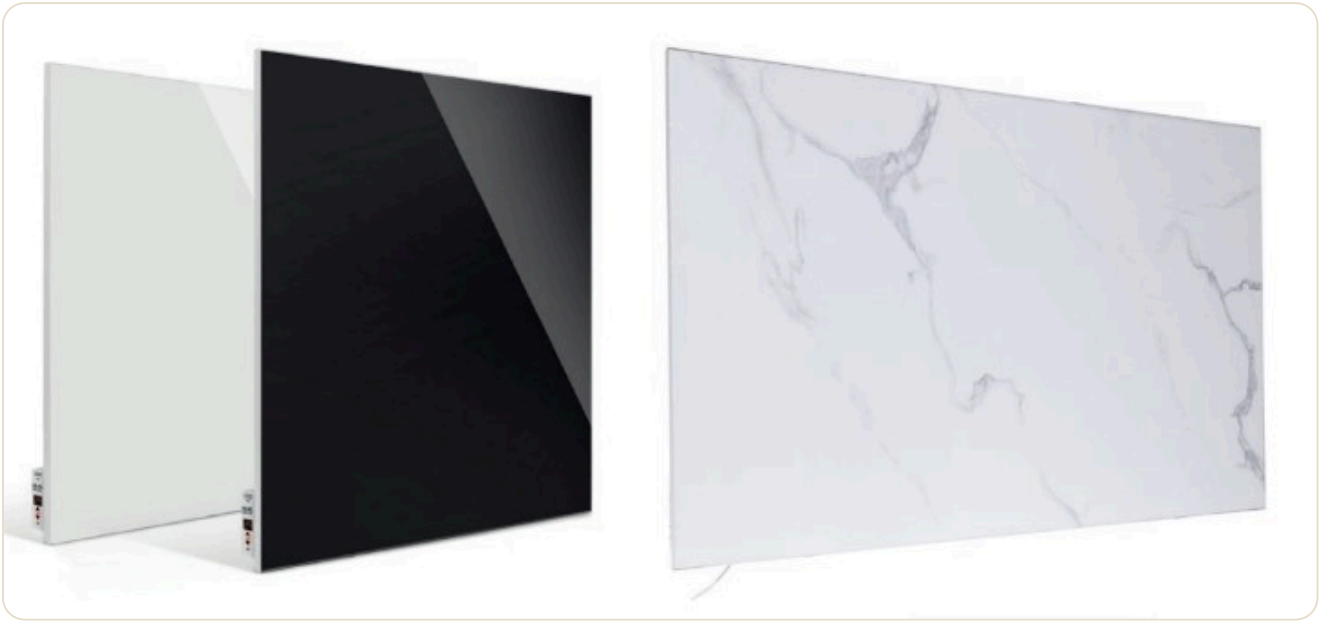


| Power | Size (mm) | Weight | Room volume | Heated area | Control | Current |
|---|---|---|---|---|---|---|
| **300 W** | 800 × 370 × 15 | 6 kg | 15 m³ | **6 m²** | On/off | 1.2–1.4 A |
| **400 W** | 800 × 370 × 15 | 6 kg | 17.5 m³ | **8 m²** | Thermostat | 1.6–1.9 A |
| **500 W** | 1100 × 470 × 15 | 10 kg | 25 m³ | **10 m²** | On/off | 2.1–2.4 A |
| **700 W** | 1100 × 470 × 15 | 11 kg | 35 m³ | **14 m²** | Thermostat | 2.9–3.3 A |
| **750 W** | 1200 × 570 × 15 | 13 kg | 38 m³ | **15 m²** | On/off | 3.1–3.5 A |
| **1000 W** | 1200 × 570 × 15 | 13 kg | 50 m³ | **20 m²** | Thermostat | 4.2–4.7 A |

220–230 V, 50–60 Hz, IP33, indoor use only. As a guide, allow about 50 W per m² of heated area.

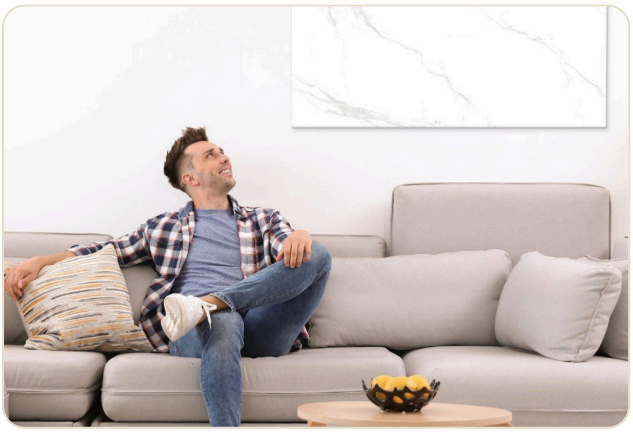
# Ceramic wave *heating panels*

Natural stone patterns are unique in every panel. Available in white, black, white-grey marble effect and maroon marble effect, each with a built-in thermostat.



| Power | Size (mm) | Weight | Room volume | Heated area | Control | Current |
|---|---|---|---|---|---|---|
| **500 W** | 600 × 600 × 17 | 13 kg | 25 m³ | **10 m²** | Thermostat | 2.1–2.4 A |
| **750 W** | 900 × 600 × 18 | 23 kg | 38 m³ | **15 m²** | Thermostat | 3.1–3.5 A |

220–230 V, 50–60 Hz, IP33, indoor use only. Thermostat room control 5–35 °C. Wall or mobile frame mounting.





# Mounting *options*

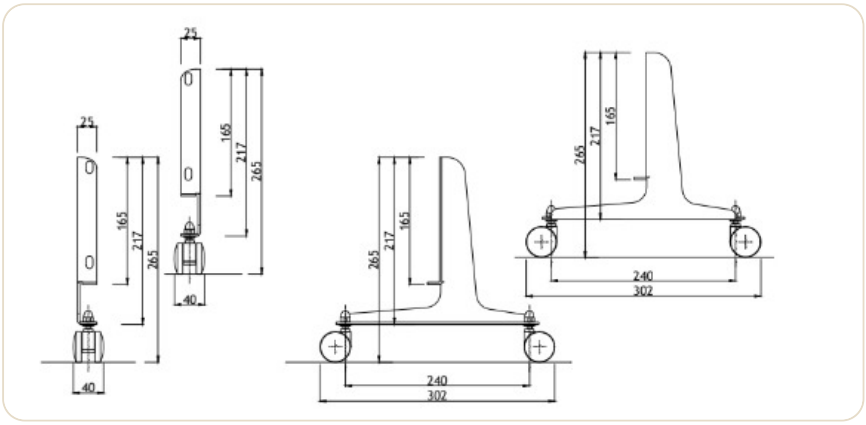
### Wall
Fit at least 30 cm above the floor, with at least 30 cm of free space above the panel.

### Ceiling
Steel on/off panels only, using a ceiling frame. A wall-mounted room thermostat is required.

### Mobile
Wheeled frame for steel and ceramic wave panels, sold separately in white or grey.

## Mobile wheeled frame





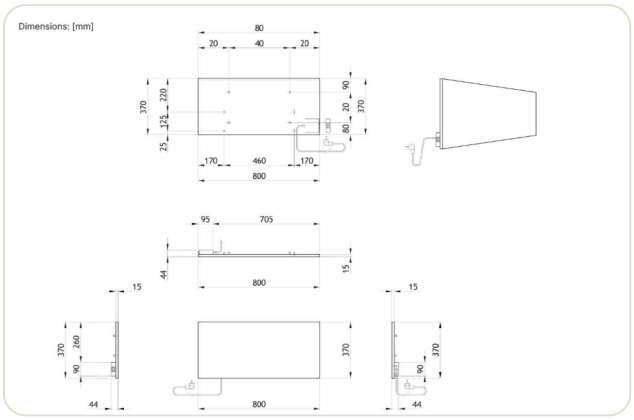

| Height | Width | Length | Holes | Weight | Pack (mm) |
|---|---|---|---|---|---|
| 265 mm | 40 mm | 302 mm | Ø 10 mm | 1.3 kg | 380 × 275 × 45 |

## Ceiling frames (steel on/off panels)

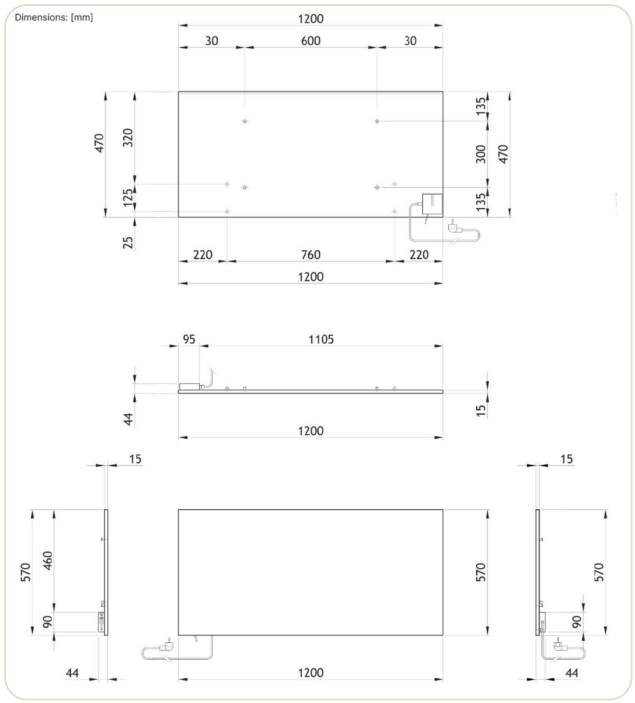
| For panel | Frame size (mm) | Weight | Mounting holes |
|---|---|---|---|
| **300 W** | 460 × 275 × 25 | 0.65 kg | Ø 7 mm |
| **500 W and 750 W** | 660 × 365 × 25 | 1 kg | Ø 7 mm |

Do not cover or lean anything against a running panel. Read the installation instructions supplied before fitting.

# Dimension *drawings*




800 × 370 mm panel (300 W). All dimensions in mm.




1200 × 570 mm panel (1000 W). Other sizes follow the same layout.

Connection box depth 44 mm. Panel thickness 15 mm. Fixing hole positions shown on the drawings.

## Shipping pack sizes

| Panel | Pack (mm) | Weight |
|---|---|---|
| **Steel 300 / 400 W** | 880 × 430 × 60 | 6 kg |
| **Steel 500 / 700 W** | 1190 × 525 × 65 | 11 kg |
| **Steel 750 / 1000 W** | 1280 × 630 × 65 | 14.5 kg |
| **Ceramic 500 W** | 675 × 665 × 65 | 13 kg |
| **Ceramic 750 W** | 970 × 660 × 65 | 23 kg |

# Safety, warranty *and certification*

**Safety**

- For indoor use only.
- Do not install wave panels near baths, showers or swimming pools. For wet rooms use the in-wall bathroom panel behind tiles.
- Do not touch or cover a panel while it is running, to avoid burns, overheating and fire.
- Store in a dry, ventilated room with humidity below 60%.
- Connection to the mains must be made by a suitably registered electrician.

**5 years**
on the heating panel

**2 years**
on the thermostat

**10–30 yrs**
on heating films, by series

## Certification

CE marked and RoHS compliant.

## Heated area guide

As a guide, allow about 50 W per m² of heated area and about 20 W per m³ of room volume. Heating needs vary with insulation, so ask us to size your system.

## Economical and beautiful

Infrared heating panels use 30% less energy than traditional electric radiators.

# Get in *touch*

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