



# gaia

Design, supply and installation specialists  
of wet and electric underfloor heating  
systems, latex and insulation

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Bury St. Edmunds, Suffolk, IP30 9QS

Registered in England 2424430

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[www.gaia.co.uk](http://www.gaia.co.uk)

**10-15%**  
Energy Savings

**Why Underfloor Heating?**

*Underfloor heating is an energy efficient way to heat your entire home and studies have proven it will help reduce your running costs.*

# The perfect solution to a warmer home.

Our philosophy revolves around providing a professional service, using the highest quality products and tailoring each design to each individual project. Creating solutions that provide either sole source heating or floor warming, Gaia gives you the luxury of a comfortable warm floor.

With over 25 years experience pioneering total underfloor heating solutions across the UK and Ireland; Gaia specialises in the design, supply and installation of both wet and electric underfloor heating systems. With a wide range of underfloor heating solutions, we at Gaia can advise and design the most suitable system for you, whether it's a refurbishment, new build project, tiled or timber flooring; providing a professional service from initial project stage through to project completion. We are so confident of our product performance; we offer market leading warranties and an after-sales service to ease all concerns.

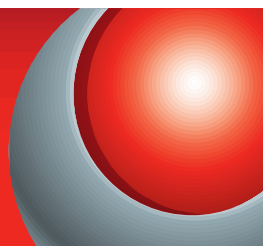
Along with underfloor heating solutions, we at Gaia specialise in the supply and installation of insulation and latex - giving complete project management service and peace of mind installation. Gaia maintains its strong links with DEVI/Danfoss as the only DEVI Project Solution Partner in the UK and Ireland designing, supplying and installing the complete DEVI underfloor heating solution.

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# Thin Embedded Floor Heating

When floors in flats, houses or basements are renovated, floor heating can be added without breaking up the old floor. The comfort is provided by either a DEVIflex™ cable system or a DEVImat™ system, which is embedded on top of the old floor or subfloor. With low build-up height, DEVImat and DEVIflex systems provide a quick responding floor warming solution under any top flooring.

The freedom in design and choice of flooring makes it applicable in almost any application, domestic and commercial:

- *Flats, Apartments*
- *Conservatories, Kitchens, New build extensions*
- *Schools, Offices*

The system can in some cases cover the required heating load, removing the need for other heating systems taking up valuable wall space, whilst maximising the available room area.

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## Product Overview

### **DEVImat DTIR-100 - 100W/m<sup>2</sup>**

Perfect for timber floor constructions, our 100W/m<sup>2</sup> DEVImats are ideal for taking the chill off your flooring or as a secondary heating solution.

### **DEVImat DTIR-150 - 150W/m<sup>2</sup>**

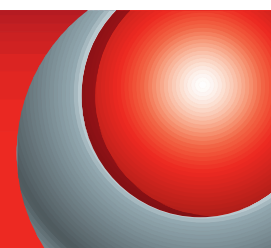
Perfect for concrete floor constructions, our 150W/m<sup>2</sup> DEVImats are ideal for laying directly onto existing tiles, solid screed/concrete or thermal tile backer board. To be used as either a primary or secondary heat source.

### **DEVImat DTIF-200 - 200W/m<sup>2</sup>**

Perfect for screed/concrete floor constructions with poor insulation levels or rooms with high heat loss. Our 200W/m<sup>2</sup> DEVImats are ideal for laying directly onto existing tiles, solid screed/concrete or thermal tile backer board but must only be placed beneath tile/stone floor finish.

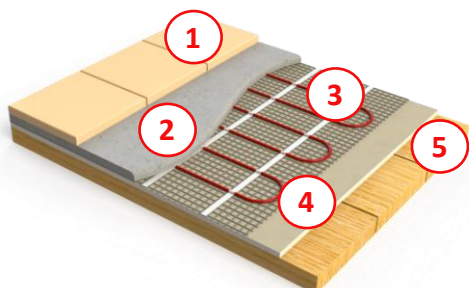
### **DEVIflex DTIR-10 – Loose Lay Cable**

The ideal solution for intricate areas, this 10w/m heating cable is loose laid to provide maximum floor coverage, providing the ultimate flexible solution whilst keeping the floor height to a minimum. The DTIR-10 heating cable can be laid to achieve 100 or 150W/m<sup>2</sup> as an alternative to the DEVImat DTIR-100 and DTIR-150 heating mats.

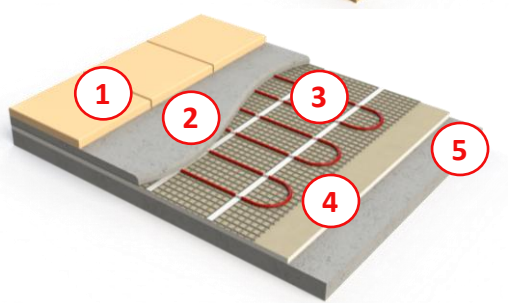


## Installation

Our underfloor heating mats have an ultra-strong dual adhesive system; it's the stickiest mat available! So once laid, it will stay where it's put. It also has a 'single cold tail' which means there is no second tail to return to the thermostat. These features combine to ensure your installation time is kept to a minimum.



- 1 – Floor Finish
- 2 – Adhesive/Levelling Compound
- 3 – Underfloor Heating Mat
- 4 – Tile Backer Board (recommended)
- 5 – Timber Sub-Floor

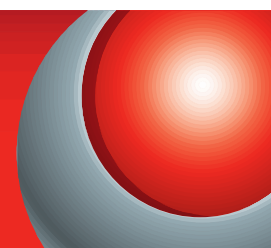


- 1 – Floor Finish
- 2 – Adhesive/Levelling Compound
- 3 – Underfloor Heating Mat
- 4 – Tile Backer Board (recommended)
- 5 – Concrete Sub-Floor

## Suitable Floor Build-up for Thin Embedded Floor Heating Systems

	Wooden Subfloor				Concrete Subfloor				Tile Backer Board			
	Tile / Stone	Floating Wooden/ Carpet	Vinyl	Solid Wood	Tile / Stone	Floating Wooden/ Carpet	Vinyl	Solid Wood	Tile / Stone	Floating Wooden/ Carpet	Vinyl	Solid Wood
100W/m <sup>2</sup> DEVImat	✓	✓	✓	✓					✓	✓	✓	✓
150W/m <sup>2</sup> DEVImat					✓	✓	✓	✓	✓	✓	✓	✓
200W/m <sup>2</sup> DEVImat					✓				✓			
DTIR-10 Loose Lay Cable – 100W/m <sup>2</sup>	✓	✓	✓	✓					✓	✓	✓	✓
DTIR-10 Loose Lay Cable – 150W/m <sup>2</sup>					✓	✓	✓	✓	✓	✓	✓	✓

While our DEVImat 100W/m<sup>2</sup> can be placed onto Tilebacker Board, our preference would be for our DEVImat 150W/m<sup>2</sup> to be used onto Tilebacker Board.



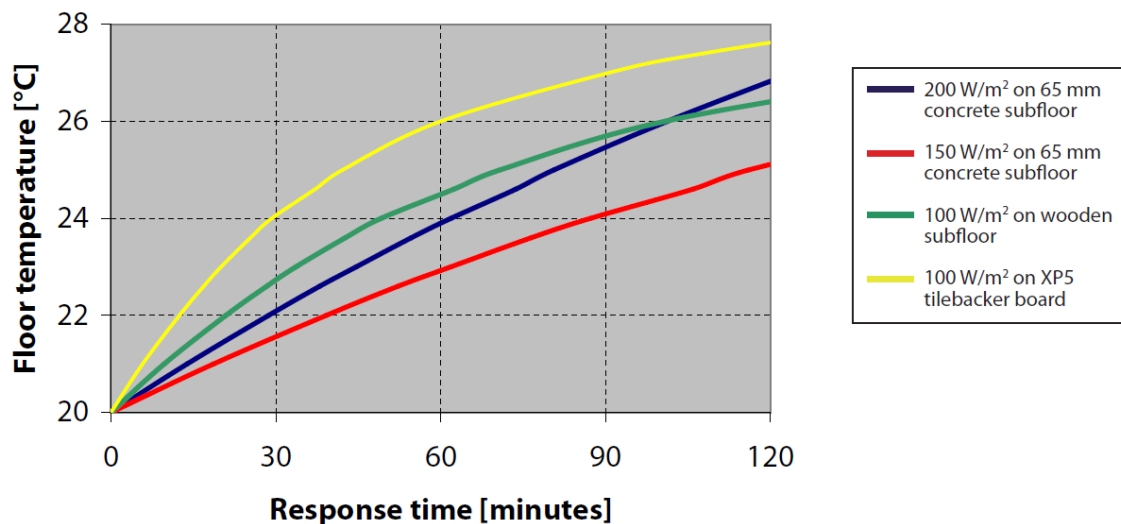
## Performance

Our thin embedded floor heating products offer quick responding floor heat when you need it. Additional insulation can be applied between existing subfloor and heating mat/cable, which will reduce any downward heat loss. The result is a quicker responding floor surface temperature, which makes this application ideal for reducing your energy consumption.

### **Approx. response time at 20°C Room temperature**

Devimat™ under 10 mm tiles

Installed on upper / ground floors with poor insulation



## Complete Floor Guard Warranty

A floor heating system which does not work causes not only dissatisfied customers - it also causes angry customers and with good reason.

A heating cable which is not working is not so easy to replace. The fault has to be found the floor must be taken up before the fault can be corrected. It is a difficult, dirty and expensive process.

Gaia places great importance on providing extremely high quality products and, in return, offers the market's highest security for unproblematic heating, backed with the promise of the best warranty in the market.

In the event of a fault that can be traced back to a manufacturing defect in a DEVIflex or DEVImat product, DEVI will repair or replace the product itself and cover any costs associated with the floor covering, at no extra cost to the customer.

**20**  
YEAR  
WARRANTY

For ultimate insurance we offer up to 20 year product warranties on all heating mats and cables – which even include the floor cost!

# Electric In-Screed Heating

DEVI heating cables are ideal for new build applications which are installed directly into the floor screed, providing a full heating solution as well as floor warming.

The freedom in design and choice of flooring makes it applicable in almost any application, domestic and commercial:

- Flats, Apartments
- Conservatories, Kitchens, New build extensions
- Schools, Offices

The system can in most cases cover the required heating load, removing the need for other heating systems taking up valuable wall space, whilst maximising the available room area.

## Product Overview

### DEVIflex DSIG-20 - 20W/m

Perfect for screed floor constructions, our DSIG-20 cables are ideal for new build applications when a full heating system is required.

- Screed floor heating output range 133-250W/m<sup>2</sup>

### DEVIflex DSIG-10 - 10W/m

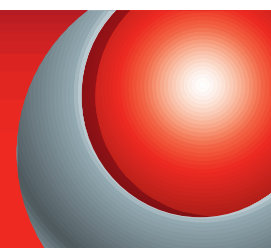
Perfect for new build applications, our DSIG-10 cables provide a full heating system within floor screeds.

- Screed floor heating output range 67-133W/m<sup>2</sup>



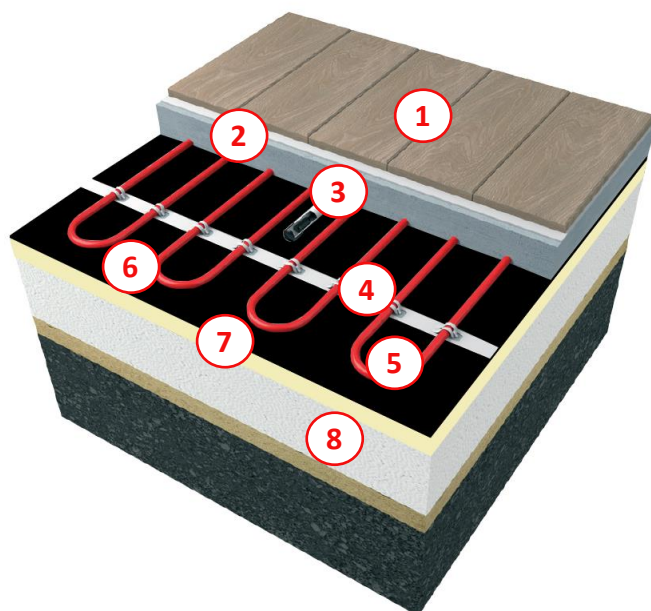
## Suitable Floor Build-up for DEVIflex Cables

	Floor Screed			
	Tile / Stone	Floating Wooden / Carpet	Vinyl	Solid Wood
DEVIflex DSIG-20 – 20W/m	✓	✓	✓	✓
DEVIflex DSIG-10 – 10W/m	✓	✓	✓	✓



## Installation

For the installation of heating cables we recommend the use of DEVIfast metal fitting band with possibility for fixing of heating cables for every 2.5 cm. These features combine to ensure your installation time is kept to a minimum.



- 1 – Floor Finish
- 2 – Floor Screed (65-75mm typically)
- 3 – Conduit Containing Floor Sensor
- 4 – Fixing
- 5 – Heating Cable
- 6 – Polythene Sheet
- 7 – Insulation (min 30mm)
- 8 – Concrete Base Layer

## Complete Floor Guard Warranty

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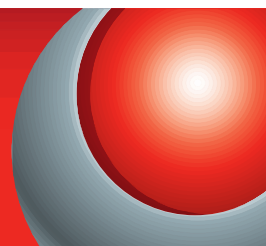
A heating cable which is not working is not so easy to replace. The fault has to be found the floor must be taken up before the fault can be corrected. It is a difficult, dirty and expensive process.

Gaia places great importance on providing extremely high quality products and, in return, offers the market's highest security for unproblematic heating, backed with the promise of the best warranty in the market.

In the event of a fault that can be traced back to a manufacturing defect in a DEVIflex™ or DEVImat™ product, DEVI will repair or replace the product itself and cover any costs associated with the floor covering, at no extra cost to the customer.



For ultimate insurance we offer up to 20 year product warranties on all heating mats and cables – which even include the floor cost!





# Floor Heating Beneath Floating Floor

When floors in flats, houses or basements are renovated, comfort floor heating can be added without using screed or without breaking up the old floor. The comfort is provided by DEVicell Dry heating system which is designed to be in contact with wooden sub or top floorings.

DEVicell Dry:

- *Consists of a 12 mm polystyrene plate and a 1 mm aluminium plate with cable grooves.*
- *Is installed on the old / sub floor, right under the new top flooring e.g. timber or parquet.*
- *Ensures fast responding floor heating and evenly distributed floor heat.*

In the case of comfort floor heating, supplementary heating may be required. The heating output of 100 W/m<sup>2</sup>, could provide the total heating of sufficiently insulated rooms.

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## Product Overview

### **DEVicell Dry**

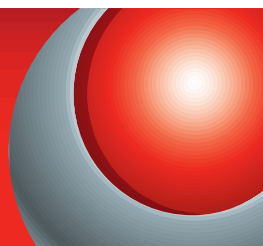
The DEVicell system cables allows you to easily press cables in to the cable grooves in the DEVicell plates, after which the new wooden floor can be laid floating directly on the plates. The DEVicell system can be installed on concrete floors or directly on wooden floors without additional preparation, and provides the necessary insulation against the subfloor.



### **DEViflex 10T - 10W/m**

Perfect for new build applications, our DEViflex 10T cables provide a full heating system within DEVicell dry overlay system.

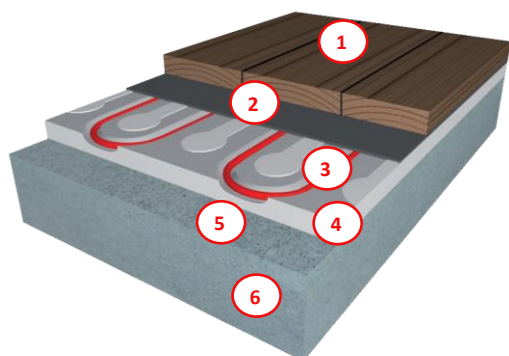
- *DEVicell floor heating output up to 100W/m<sup>2</sup>*



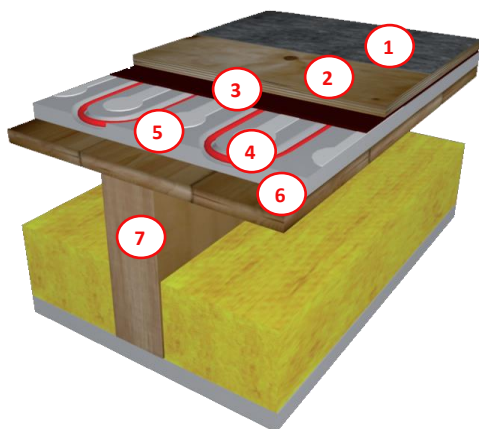


## Installation

Our DEVicell underfloor heating products are quick and easy to install. Our DEViflex 10T heating cables have a 'single cold tail' which means there is no second tail to return to the thermostat. These features combine to ensure your installation time is kept to a minimum.



- 1 – Floor Finish
- 2 – Noise Absorption Mat
- 3 – DEViflex 10T
- 4 – DEVicell Dry
- 5 – Damp Proof Membrane
- 6 – Existing Floor Construction  
(e.g concrete, gypsum, polystyrene)

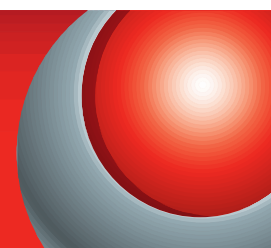


- 1 – Linoleum / Vinyl, Carpet, Tile & Stone
- 2 – Pressure Distribution Board (e.g. Plywood)
- 3 – Noise Absorption Mat
- 4 – DEViflex 10T
- 5 – DEVicell Dry
- 6 – Damp Proof Membrane
- 7 – Existing Wooden Floor Construction

## Suitable Floor Build-up for DEVicell

	DEVicell			
	Tile / Stone	Floating Wooden / Carpet	Vinyl	Solid Wood
DEViflex 10T – 10W/m	✓	✓	✓	✓

*With soft floor finishes (vinyl and carpet) and tiles, the DEVicell system must first be over boarded with a pressure distribution board such as 6mm plywood.*



## Performance

Since the DEVicell insulation breaks the thermal bridge downwards and the aluminium distributes the heat sideways, the temperature distribution and response time is improved. The result is a quick responding floor surface temperature, which makes this application ideal for timer thermostats.



## Complete Floor Guard Warranty

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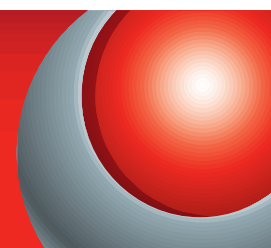
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For ultimate insurance we offer up to 20 year product warranties on all heating mats and cables – which even include the floor cost!



# Electric Thermostats

Bring that extra level of control to your life, by controlling all the heating systems in your home with ease. Offering a complete range of thermostats from simple dial to programmable options all designed for easy and accurate heating control. Further upgraded options include centralised colour touch screen pads and control away from the home, using an app via the internet.

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## Product Overview

### **DEVIreg 13X Thermostat**

The 13X is a series of manual electronic thermostats used for control of indoor heating – comprising of both the DEVIreg 130 and 132.

**DEVIreg 130** is a basic surface mounted manual thermostat for floor warming applications. Equipped with a floor sensor to monitor the floor temperature, commonly used for bathrooms where the controller is located outside of the room.

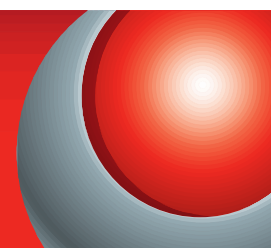
**DEVIreg 132** is a basic surface mounted manual thermostat used for control of both floor heating installations and room heating installations. The thermostat is equipped with a built-in air sensor for control of the desired room temperature. In addition, the thermostat is equipped with a floor sensor to regulate the desired floor temperature.



### **DEVIreg Touch Thermostat**

An easy and intuitive touch screen timer thermostat used for controlling electrical underfloor heating elements.

- Simple and intuitive touch screen operation, with combined thermostat and timer
- Fully programmable 7-day controller
- Fast and simple to use; can be programmed using an online app
- A clever range of energy-saving features to reduce heating costs by up to 12%
- In-built intelligence means that the thermostat will learn how each installation operates and alters the switching on time accordingly on a daily basis, ensuring minimal running costs
- Flush mounting, fits into a standard 47mm single socket box
- A unique 5-year warranty, including online replacement service



## DEVIreg Smart Thermostat

A wireless programmable timer thermostat, with touch screen operation used for controlling electrical floor heating elements.

- Control heating from anywhere, at any time
- A single DEVIreg™ Smart thermostat can be paired with up to 10 mobile devices using DEVIsmart™ App
- With one DEVIsmart™ App you are able to control as many locations with as many DEVIreg™ Smart thermostats as you need
- Can communicate with two mobile devices simultaneously
- Fast and intuitive setup using the built-in wizard
- Energy-saving program –including optimum start/end control ensuring the desired temperature at the correct time and thereby reducing heating costs
- Open window detection automatically switches off the floor heating
- Very precise regulation of user set room temperature by means of a specially developed PWM (Pulse Width Modulation) regulation, including optimal change from comfort to economy mode

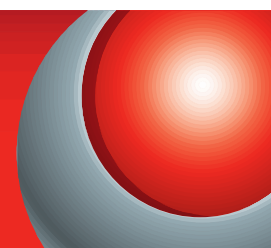


## Heatmiser neoStat-e & neoHub

Heatmiser's latest neo system delivers Control from anywhere functionality directly on your smartphone or tablet. NeoApp is designed to work perfectly with neoHub and neoStats. Together they present an advanced heating control solution that is perfect for modern lifestyles.

### Key Benefits:

- Stunning design incorporating soft touch keys
- Non Programmable, 5/2 Day, 7 Day and 24 Hour Programming
- Air, Air & Floor, Floor Only Sensing Modes
- 3 Meter Remote Floor Sensor
- 5 Minute Program Intervals
- Self Learning Optimum Start
- 4 Comfort Levels / Times per Day
- Holiday Facility
- Flush Mounting
- C/F Selectable
- Key Code Facility
- Automatic Blue Back Light (Turns off after 30 seconds)
- Frost Protection



## DEVlink Central Control System

DEVlink offers you the possibility to control your underfloor heating system from a distance. You simply need your heating system, DEVlink control panel and the App.

### DEVlink Central Controller

The perfect solution for the regulation of underfloor heating systems for apartments, family houses and multifamily buildings. All control devices are specifically designed to be networked as a complete system with two-way wireless communication, giving ultimate control from one central point.

- Vacation function
- Simple user interface
- Colour touch screen
- Weekly heating schedule
- At home mode
- Pause heating
- Control of on/off devices (not via app)
- Integrated help function
- Personalised settings
- Quick / moderate heating regulation functions
- Wi-fi enabled



### DEVlink Floor Thermostat (FT)

The FT is a wireless zone control switch with optional floor sensor. The FT is used to control either each zone on a manifold or each electric underfloor heating circuit. It can also be used to function as an ON/OFF switch, for example an electric heated towel rail. All communication to the FT is wireless and therefore simple and quick to install.

- On/Off switch
- Wireless connection to the DEVlink Central Controller
- Optional floor sensor
- 15A switching load, 4A inductive load



### DEVlink Room Sensor (RS)

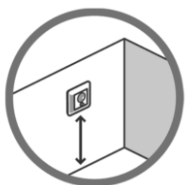
The RS is designed for precise measurement and setting of desired room temperatures. The RS works in conjunction with a FT to control the required comfort and convenience. It is a battery-operated device for measuring room temperature. High flexibility through free positioning.

- Backlit display
- Built-in sensor for temperature measurement
- Display of set and actual temperature
- Timeless modern design
- 2 x AA batteries
- Battery life up to 2 years
- Warnings: 'low battery' and 'no signal'



## Installation

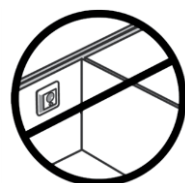
The installation of our thermostats must be done by an authorised and qualified installer. When mounting a thermostat, please pay attention to the details below:



Place the thermostat at a suitable height on the wall (typically 80-170cm.)



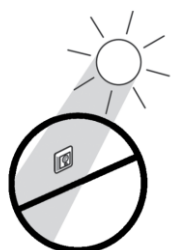
The thermostat **should not** be placed in wet rooms. Place it in an adjacent room. Always place the thermostat according to local regulation on IP classes.



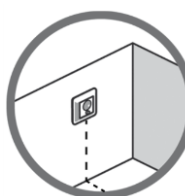
**Do not** place the thermostat on the inner side of an exterior wall.



Always install the thermostat at least 50 cm from windows and doors.



**Do not** place the thermostat in a way that it will be exposed to direct sunlight

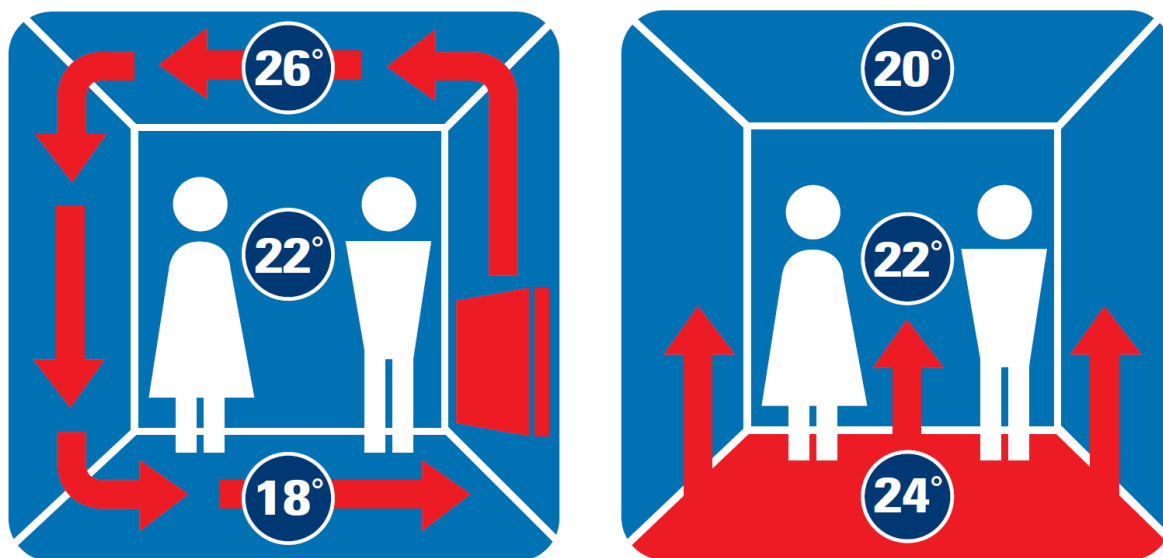


Note: A floor sensor enables a more accurate temperature control and is recommended in all floor heating applications and mandatory under wooden floors to reduce the risk of over-heating the floor.

**Important:** When the thermostat is used to control a floor heating element in connection with a wooden floor or similar material, always use a floor sensor and never set the maximum floor temperature to more than 35° C.



## Performance



Thanks to heat distribution coming from the floor and a precise temperature control system such as a DEVIreg thermostat, the average room temperature can be reduced by 1-2° C compared with traditional radiator heating without influencing the thermal comfort level. This enables a reduction of the energy loss by up to 10-20%, which is both economical and environmentally beneficial.

## Market Leading Warranties

We provide you with the most up to date thermostats, which help to increase energy saving and minimise costs. However, controls that don't work cause dissatisfied customers and as such we ensure that all our thermostats come with market leading warranties.

Both the DEVIreg Touch and DEVIreg Smart thermostats offer a unique 5-year warranty. In the unlikely event that the unit does fail, we will send a replacement to the address you specify within 48 hours.

Gaia places great importance on providing extremely high quality products and, in the event of a fault, that can be traced back to a manufacturing defect in the product, be repaired or replaced free of charge.

To apply for this warranty the installation must be performed by an authorised installer and the warranty certificate has to be stamped, signed and provided.

