Electric systems for heating and DHW

Everything you need to produce hot water, conveniently and efficiently, from a single source – Viessmann.
convenient
efficient
decentralised
intelligent
economical
Viessmann’s comprehensive range now also includes electric DHW and heating systems. This means users get everything from a single source: efficient energy systems for generating power on site, storing it and using it intelligently for heating, cooling and ventilation.

**Convenient DHW heating with Vitotherm**
Vitotherm electric instantaneous water heaters are a good choice for DHW heating. These advanced, fully electronic appliances only consume electricity when hot water is actually needed.

**Decentralised or centralised solutions for heating with Vitoplanar**
In newly built low energy and passive houses, it can make sense to install a Vitoplanar area heating system, in spite of the low energy demand. Vitoplanar products offer flexible application possibilities for modernisation projects.

**Intelligently combined heat generators**
Electronic instantaneous water heaters and electric area heating systems in conjunction with heat pumps provide a sustainable boost to system efficiency.
6 VITOTHERM INSTANTANEOUS WATER HEATERS WITH INTELLIGENT CONTROL
Innovative 4S technology meets the requirements of many different applications for a convenient hot water supply.

8 VITOTHERM INSTANTANEOUS WATER HEATERS, IN A VERSATILE RANGE OF MODELS
With five versions of this fully electronic model available, including a mini instantaneous water heater, every requirement is met.

10 VITOTHERM WATER HEATERS – 5 TO 150 LITRES
These wall mounted water heaters are characterised by high temperature precision, guaranteeing simultaneous use at various draw-off points, and sufficient capacity for a luxurious bath as well.

14 THE VITOTHERM RANGE – OVERVIEW
Which appliance is right for you? A table compares the appliances and suggests the best application areas for each.

16 VITOPLANAR ELECTRIC HEATING SYSTEMS FOR WALLS AND CEILINGS
Decentralised or centralised heating of bathrooms, kitchens, hallways and much more.

20 VITOPLANAR ELECTRIC UNDERFLOOR HEATING SYSTEMS
Electric heating mats generate heat directly, without the need for conventional pipework.

22 VIESSMANN – THE COMPANY
Subsidies for the Vitotherm EI2

Replace your old instantaneous water heater and get a €100 subsidy.
Viessmann has five Vitotherm instantaneous water heaters in its comprehensive range. These electronic appliances mainly differ with respect to their innovative "S" technology and suit a wide range of applications which require a convenient hot water supply.

**Vitotherm EI2**
with 4S function
The 4S function includes inlet/outlet temperature and flow sensors for continuous, automatic output matching. A processor-controlled motorised valve provides accurate, constant water temperatures (30 to 60 °C) at the maximum flow rate.

**€100 subsidy for the Vitotherm EI2**
Subsidies of up to €100 are available if you replace an old instantaneous water heater with an advanced Vitotherm EI2.

Everything you need to know about eligible appliances can be found at foerderung-duerlaufwasser.de

**Vitotherm EI3 and EI4**
with 3S function
Vitotherm instantaneous water heaters with 3S function feature inlet and outlet temperature sensors and a flow sensor for continuous output matching. The electronically controlled heating output ensures the required temperature is maintained.

With an installation depth of just ten centimetres, the compact and space saving Vitotherm EI3 can be easily installed under a sink or hand basin.

**Vitotherm EI6**
with 2S function
The 2S function consists of an inlet temperature sensor and a flow sensor with output matching. The electronically controlled heating output ensures the required temperature is maintained.

**Vitotherm EI5**
DHW convenience in a mini format
The EI5 mini instantaneous water heater offers a hydraulically controlled and affordable supply of hot water to a hand basin, making it the ideal solution for guest toilets.

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**TAKE ADVANTAGE OF THESE BENEFITS**

- Broad range of models – suitable for any application
- Comfort instantaneous water heaters for quick and efficient provision of hot water
- Electronic instantaneous water heaters for precise water temperatures for many applications
- Saving energy and water – only the currently required amount of water is heated
- Efficient – short pipe runs for quick availability of DHW
- Simple replacement for all common instantaneous water heaters
- Easy fixing system with integral compensation for unevenness in the wall
- Quick and straightforward installation
- Adjustable output
- Insertion aid for the connecting cable
- Comprehensive safety concepts
- Selectable connected load for Vitotherm EI2, EI3 and EI4 instantaneous water heaters
The Vitotherm EI4 electronically controlled instantaneous water heater is characterised by its variable temperature selection ranging from 30 to 55 °C. Permanent scald protection can be set to take effect at 43 °C.

The Vitotherm EI3 electronic instantaneous water heater with 3S function* is recommended for the kitchen. It delivers a water temperature that can be adjusted to the precise degree. The Vitotherm EI3 is suitable for preheated water up to 70 °C. This compact instantaneous water heater can be used to reheat water that has already been preheated to 55 °C. The appliance features a multi stage electronic safety concept and integral scald protection.

With an installation depth of just ten centimetres, this compact and space saving appliance can be easily installed under a sink or hand basin. The Vitotherm EI3 is secured directly to the wall through the back panel, for quick installation. Any unevenness can then be easily levelled out. The Vitotherm EI3 has two connected load options.

Vitotherm EI2 – with large colour display
The Vitotherm EI2 fully electronic instantaneous water heater offers excellent DHW convenience. The 4S function* includes wellness shower programs, eco functions, programmable memory functions and automatic water volume control.

The multifunction display shows the temperature, flow rate, energy consumption and time. If the water temperature exceeds 42 °C, the display illumination changes from blue to red as a warning that the water is too hot. The childproofing function, which takes effect at 43 °C, prevents unintentional adjustments.

Electronic air bubble detection ensures consistently high DHW convenience. The energy consumption and volume of water can be read from the consumption display.

The Vitotherm EI2 has three connected load options.

Vitotherm EI4 – the all-rounder
The Vitotherm EI4 electronically controlled instantaneous water heater is characterised by its variable temperature selection ranging from 30 to 55 °C. Permanent scald protection can be set to take effect at 43 °C.

Vitotherm EI3 – particularly compact
The Vitotherm EI3 electronic instantaneous water heater with 3S function* is recommended for the kitchen. It delivers a water temperature that can be adjusted to the precise degree. The Vitotherm EI3 is suitable for preheated water up to 70 °C. This compact instantaneous water heater can be used to reheat water that has already been preheated to 55 °C. The appliance features a multi stage electronic safety concept and integral scald protection.

With an installation depth of just ten centimetres, this compact and space saving appliance can be easily installed under a sink or hand basin. The Vitotherm EI3 is secured directly to the wall through the back panel, for quick installation. Any unevenness can then be easily levelled out. The Vitotherm EI3 has two connected load options.

Vitotherm EI6 – for property development
The Vitotherm EI6 electronic instantaneous water heater with 2S function*, with a three stage temperature selection switch with 30, 45 and 55 °C, ensures the required temperature for baths and showers at all times.

The Vitotherm EI6 is the ideal choice for property development, for example when replacing old appliances in apartment buildings and as part of modernisation projects. It can be installed remarkably quickly.

Vitotherm EI5 – the mini format
The EI5 mini instantaneous water heater offers an efficient, hydraulically controlled and affordable supply of hot water to a hand basin, making it the ideal solution for guest toilets. The appliance is available with 3.5, 5.7 and 6.5 kW output ratings.

The heating output is hydraulically controlled for the Vitotherm EI5, with a flow switch and automatic flow meter. The appliance is suitable for undersink installation and for connection to commercially available taps.

* “S” function – see page 7
Easy to operate, economical in consumption

Vitotherm electric instantaneous water heaters are characterised by their easy operation and high cost effectiveness.

Vitotherm EI2
- Multifunction display
- Heater
- Flow sensor
- Motorised valve

Vitotherm EI2
- The convenient, fully electronic solution

Vitotherm EI4
- The economical all-rounder

Vitotherm EI6
- Ideal for property development

Vitotherm EI3
- Particularly compact: only ten centimetres in depth

Vitotherm EI5
- Hydraulically controlled mini instantaneous water heater
5 litre water heaters under a sink or washbasin are a popular choice. Vitotherm ES2 and ES6 appliances are ideal for the kitchen and office.
Vitotherm wall mounted water heaters make hot water available, quickly and efficiently

The Vitotherm range also includes wall mounted water heaters with a capacity of between 5 and 150 litres. They meet the DHW demand for the kitchen sink and provide the volume of water needed for a bath or shower.

Three adjustable eco functions make the Vitotherm EW4 a particularly efficient and economical choice:

**ECO Balance saves energy when only a little water is drawn off**

This mode always offers the maximum volume of DHW and therefore the greatest convenience. In ECO Balance economy mode, the set temperature is automatically reduced from 85 to 60 °C after a week in which little water is drawn off.

**ECO Efficiency only warms the water above a particular draw-off rate**

This economy mode boosts energy savings, as the water is only heated after significant draw-off. In ECO Efficiency mode, the water heater automatically heats the water up to the set temperature of 60 °C if 40 percent of its content has been drawn off.

**ECO Energetic adjusts to the draw-off pattern**

This economy mode offers maximum energy efficiency through intelligent, dynamic matching to the draw-off pattern. Once ECO Energetic mode is selected, the appliance analyses the draw-off times and volumes over the course of a week. The following week, it is then able to provide the right amounts of mixed water needed at the draw-off time.

The appliance observes user behaviour and automatically adjusts the heat-up times where necessary. This economy mode is ideal when hot water is needed at the same times each week. If the draw-off times change, hot water is available the following week at the changed times. The set temperature is immediately set to 60 °C.

**TAKE ADVANTAGE OF THESE BENEFITS**

+ Wall mounted water heater for quick and efficient provision of hot water
+ Vitotherm EW4: six different water heater capacities (30 to 150 l) for a variety of requirements and applications
+ Vitotherm EW6: low cost alternative for open vented or sealed unvented operation; single circuit, dual circuit or DHW only mode; variable temperature setting from 20 to 80 °C
+ Can make use of a low or standard tariff
+ Efficient – short pipe runs for quick availability of DHW
+ Simultaneous supply of multiple draw-off points
+ Vitotherm ES2/ES4: power saving Thermostop function
+ Vitotherm ES2: anti-drip function to prevent limescale deposits
+ Quick and straightforward installation
+ Comprehensive safety concepts
Vitotherm EW4 and EW6 wall mounted water heaters of up to 150 litres

Vitotherm EW4 and EW6 wall mounted water heaters are designed for installation in bathrooms and utility rooms. With a cylinder volume of up to 150 litres, appliances with a capacity of 80 litres and above have sufficient reserves for a bath. Multiple draw-off points can also be supplied – for example a washbasin and shower at the same time. If required, the quick heat-up button is activated.

The temperature is continuously and precisely adjustable to between 35 and 85 °C. The Vitotherm EW4 is equipped with an electronic keypad and the EW6 with a rotary selector.

7-segment display indicates the operating status

With the Vitotherm EW4, all standard settings are entered directly on the digital user interface and are retained. Furthermore, the backlit display shows the available volume of hot water, the energy consumption, the required temperature set at that time, and various values relating to the current operating status. The appliance has a childproofing function and, if there is a service issue, displays the fault.

Vitotherm ES2 and ES6 small water heaters

With a cylinder volume of five litres, the Vitotherm ES2 and ES6 small electric water heaters are fast suppliers of hot water in kitchens and offices. The non-pressurised appliances with a 2 kW output simply require a 230 V socket for connection.

Both water heaters are equipped with the Thermostop function, which cuts electricity bills by approx. €30 a year. The ES2 model also features an anti-drip function which prevents water dripping when it is being heated up. Besides reducing water consumption, this also prevents limescale deposits. Both appliances use very little standby energy.
Large cylinder capacities for baths and showers

With up to 150 litres in capacity, these wall mounted water heaters facilitate luxurious soaks and long showers.

VITOTHERM

WALL MOUNTED WATER HEATERS

- Vitotherm EW4
  With maintenance-free impressed current anode and self-learning PCB

- Vitotherm EW6
  With protective magnesium anode and variable temperature setting via rotary selector

VITOTHERM ES2, ES6
With a cylinder capacity of five litres, also available with anti-drip function

VITOTHERM EW4

1. 7-segment display
2. Heating coil
3. Cylinder body
4. Impressed current anode
Instantaneous water heater or wall mounted water heater? The right solution – with Vitotherm from Viessmann!
<table>
<thead>
<tr>
<th></th>
<th>Vitotherm EI comfort instantaneous water heater</th>
<th>Vitotherm EI compact instantaneous water heater</th>
<th>Vitotherm EI mini instantaneous water heater</th>
<th>Vitotherm ES small water heater</th>
<th>Vitotherm EW wall mounted water heater</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>EI2</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>EW4</td>
</tr>
<tr>
<td><strong>EI4</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>EW6</td>
</tr>
<tr>
<td><strong>EI6</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>EI3</strong></td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td><strong>EI5</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>ES2</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>ES6</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>EW4</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>EW6</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Rated output</strong></td>
<td>18 to 27 kW</td>
<td>11 to 13.5 kW</td>
<td>3.5 to 6.5 kW</td>
<td>2 kW</td>
<td>2 to 6 kW</td>
</tr>
<tr>
<td><strong>Nominal capacity</strong></td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>5 litres</td>
<td>30 to 150 litres</td>
</tr>
<tr>
<td><strong>Power supply</strong></td>
<td>400 V</td>
<td>400 V</td>
<td>230 / 400 V</td>
<td>230 V</td>
<td>230 / 400 V</td>
</tr>
<tr>
<td><strong>Energy efficiency class</strong></td>
<td>A</td>
<td>A</td>
<td>A</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td><strong>Individual supply</strong></td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td><strong>Group supply</strong></td>
<td>+</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>+</td>
</tr>
<tr>
<td><strong>Centralised supply</strong></td>
<td>+</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>+</td>
</tr>
<tr>
<td><strong>Hand basin</strong></td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td><strong>Washbasin</strong></td>
<td>+</td>
<td>+</td>
<td>–</td>
<td>–</td>
<td>+</td>
</tr>
<tr>
<td><strong>Bidet</strong></td>
<td>+</td>
<td>+</td>
<td>–</td>
<td>–</td>
<td>+</td>
</tr>
<tr>
<td><strong>Kitchen sink</strong></td>
<td>+</td>
<td>+</td>
<td>–</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td><strong>Utility sink</strong></td>
<td>+</td>
<td>+</td>
<td>–</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td><strong>Bath</strong></td>
<td>+</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>+*</td>
</tr>
<tr>
<td><strong>Shower</strong></td>
<td>+</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>+</td>
</tr>
<tr>
<td><strong>Wellness shower</strong></td>
<td>+</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>+</td>
</tr>
<tr>
<td><strong>Permanent electrical connection</strong></td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>–</td>
<td>+</td>
</tr>
<tr>
<td><strong>Electrical connection with plug</strong></td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>+</td>
<td>–</td>
</tr>
</tbody>
</table>

* Suitable for baths from 80 litres capacity upwards
Double the benefit: Vitoplanar electric infrared heater with a mirrored surface
There are a wide variety of applications for electric heating systems: for example, in the kitchen or bathroom during the spring/autumn, when it is not yet worth switching on the central heating. Likewise in conservatories and garages, which may occasionally be used as a workspace for hobbies. Electric heating systems are a good choice when modernising older buildings and also in new builds. In the case of the latter, they can even serve as an economical sole means of heating, depending on the insulation value of the building envelope.

**Vitoplanar from Viessmann – efficient and reliable**

Vitoplanar systems are efficient and reliable. This is achieved through the consistently high radiant effect, two temperature limiters for a high level of safety, insulated backing for maximum radiation to the front, maintenance-free technology without a magnetic field and, last but not least, flexible installation options.

**TAKE ADVANTAGE OF THESE BENEFITS**

- System supplier for conventional and electric heat generators
- Decentralised or centralised heating of bathrooms, kitchens, hallways and buildings in temporary use
- Suitable for new builds and modernisation projects
- Rapid and highly convenient heating at the press of a button
- Quick and straightforward installation
- Numerous sizes and output ratings
- Kits containing all necessary components
- Low investment costs for electric underfloor heating
- No maintenance required
- Low heat losses
- Ecological operation with "green" power
Infrared heaters, rapid heaters, wall convectors

Pleasant and evenly distributed infrared heat
Many of us are very familiar with infrared rays from the field of medicine. They are used to warm the body pleasantly before a massage, for example. And infrared lamps are a popular choice in the home for alleviating the symptoms of a cold.

However, this radiated heat can also be used for heating. The infrared heaters developed for this achieve their full effect when the radiation meets objects and people in the building. The energy is then evenly released again to the living space.

Economical modernisation
Infrared heaters are frequently an alternative to traditional radiators. Replacing outdated night storage heaters – of which there are half a million in Germany alone, according to recent figures – with modern, slimline infrared heaters, is a possible solution in modernisation projects, for example. The power connection is already in place and there is no need for the costly installation of heating pipes, a domestic natural gas connection or investment in a conventional heating system.

PRACTICAL ACCESSORIES

Infrared heaters, rapid heaters, wall convectors

Vitoplanar wireless room thermostat
Vitoplanar switch mounting thermostat with touchscreen (wired solution)
Vitoplanar wireless receiver for connecting with the Vitoplanar wireless room thermostat

Sole means of heating in well insulated new builds
Infrared heaters can be a useful complement to a heat pump in new builds. They can even serve as the sole means of heating in well insulated homes.
## Vitoplanar

### Infrared heaters

<table>
<thead>
<tr>
<th>Vitoplanar</th>
<th>EI2</th>
<th>EI2</th>
<th>EI3</th>
<th>EI5</th>
<th>EI6</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A1000GW</td>
<td>A500/750/1000M</td>
<td>A500/750/1000GW</td>
<td>A250/500/750/1000S</td>
<td>A350/500/750/1000SDM</td>
</tr>
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</table>

### Rapid heater

<table>
<thead>
<tr>
<th>EQ4P</th>
<th>EC4</th>
</tr>
</thead>
<tbody>
<tr>
<td>A2000</td>
<td>A500/1000/1500/2000S</td>
</tr>
</tbody>
</table>

### Wall convector

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
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<tbody>
<tr>
<td></td>
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### Output ratings

<table>
<thead>
<tr>
<th></th>
<th>EI2</th>
<th>EI2</th>
<th>EI3</th>
<th>EI5</th>
<th>EI6</th>
</tr>
</thead>
<tbody>
<tr>
<td>250 W</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>+</td>
<td>–</td>
</tr>
<tr>
<td>350 W</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>+</td>
</tr>
<tr>
<td>500 W</td>
<td>–</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>750 W</td>
<td>–</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>1000 W</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>1500 W</td>
<td>+</td>
<td>–</td>
<td>+</td>
<td>–</td>
<td>+</td>
</tr>
<tr>
<td>2000 W</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>+</td>
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</table>

### Product features

<table>
<thead>
<tr>
<th>Feature</th>
<th>EI2</th>
<th>EI2</th>
<th>EI3</th>
<th>EI5</th>
<th>EI6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infrared/convection</td>
<td>+ / +</td>
<td>+ / –</td>
<td>+ / –</td>
<td>+ / –</td>
<td>+ / –</td>
</tr>
<tr>
<td>Surface</td>
<td>Glass, white</td>
<td>Glass, mirrored</td>
<td>Glass, white</td>
<td>Steel, white (RAL 9016)</td>
<td>Steel, white (RAL 9016)</td>
</tr>
<tr>
<td>Wall mounting</td>
<td>Horizontal</td>
<td>Horizontal/vertical</td>
<td>Horizontal/vertical</td>
<td>Horizontal/vertical</td>
<td>Horizontal/vertical</td>
</tr>
<tr>
<td>Ceiling mounting</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>+</td>
</tr>
<tr>
<td>Connecting cable</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>1.5 m</td>
<td>Plug</td>
<td>Plug</td>
<td>Plug</td>
<td>Plug</td>
<td>Without plug</td>
</tr>
<tr>
<td>1 m, 3 x 1.5 mm²</td>
<td>Plug</td>
<td>Plug</td>
<td>Plug</td>
<td>Plug</td>
<td>Without plug</td>
</tr>
<tr>
<td>0.9 m</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Connecting cable</td>
<td>–</td>
<td>–</td>
<td>–</td>
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<td>–</td>
</tr>
<tr>
<td>Connecting cable</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Connecting cable</td>
<td>–</td>
<td>–</td>
<td>–</td>
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</tr>
<tr>
<td>Connecting cable</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Accessories (optional)</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Vitoplanar switch mounting thermostat (with touchscreen), wired</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>Vitoplanar wireless receiver</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
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<tr>
<td>Vitoplanar wireless room thermostat</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>Towel holder</td>
<td>–</td>
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For parquet/laminate flooring, ceramic floors

Electric heating mats are a luxury feature in new builds. Heat is generated directly, without the need for conventional pipework. Besides their use in new builds, they are also recommended for retrofitting in renovation and modernisation projects. Heating mats provide pleasant warmth underfoot in bathrooms and kitchens, in particular during spring/autumn.

**Fully fledged heating for low energy and passive houses**
In low energy and passive houses, electric underfloor heating systems are also an alternative to conventional boilers, due to their low energy demand for heating.

**Minimal installed height – ideal for laminate and parquet**
The heating mats, being 1.3 millimetres thick, are also suitable for laying under laminate and parquet flooring. They are the ideal solution in an apartment renovation when conventional underfloor heating is opted for instead of renewing the screed. The mats are laid as a floating substrate and are quickly and easily installed with just one connecting cable. They can be flexibly adapted to the size of each room thanks to their different outputs and sizes. They are also available in a kit with a controller and accessories.

**Vitoplanar EF2 – for tiles and ceramic floor coverings**
- 160 W/m² (standard)
- 160 to 1120 W (1 to 7 m²)
- Self-adhesive mesh heating mat
- Ideal for modernisation and new builds (just 2.7 mm high)
- Suitable for open showers
- Only one connecting cable (two-core)
- Low magnetic field operation (< 25 nT)

**Vitoplanar EF2 – accessories included in kit**
- 160 W/m² (7 m²)
- Included in the kit:
  - Pre-assembled heating mat
  - Conduit
  - Floor sensor
  - Sensor well
  - eTouch eco controller for the room or floor temperature, self-learning (e.g. seven-day program)
- Further features as per the Vitoplanar EF3

**Vitoplanar EF3 – for parquet and laminate floorings**
- 120 W/m² (standard)
- 120 to 840 W (1 to 7 m²)
- Floating installation on screed
- Ideal for modernisation projects (only 1.3 mm high)
- Only one connecting cable (two-core)
- Low magnetic field operation (< 25 nT)

**Vitoplanar EF3 – accessories included in kit**
- 120 W/m² (7 m²)
- Included in the kit:
  - Pre-assembled heating mat
  - Conduit
  - Floor sensor
  - Sensor well
  - eTouch eco controller for the room or floor temperature, self-learning (e.g. seven-day program)
- Further features as per the Vitoplanar EF3

Electric heating mats are a luxury feature in new builds. Heat is generated directly, without the need for conventional pipework. Besides their use in new builds, they are also recommended for retrofitting in renovation and modernisation projects. Heating mats provide pleasant warmth underfoot in bathrooms and kitchens, in particular during spring/autumn.

Parquet and laminate are laid directly on the Vitoplanar EF3 heating mat.
Vitoplanar – in a kit complete with accessories

The electric heating mats are also available in a kit with a pre-assembled heating mat, controller and connecting cable.

Vitoplanar EF2
for ceramic floors

- Installed height: 2.7 mm
- Output: 160 W/m²
- Only 1 connecting cable
- For wet rooms
- For modernisation projects
- Under tiles, stone and marble
- In screed
- Floating beneath laminate and parquet

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Vitoplanar EF3
Electric underfloor heating system for parquet and laminate floors

- Installed height: 1.3 mm
- Output: 120 W/m²
- Only 1 connecting cable
- For new builds
- Under tiles, stone and marble
- In screed
- Floating beneath laminate and parquet

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As a family business Viessmann takes the long view and places great value on acting responsibly; sustainability is firmly enshrined in the company’s principles. For Viessmann, sustainability in action means striking a balance between economy, ecology and social responsibility throughout the company; meeting current needs without compromising the quality of life of future generations.

With its strategic sustainability project, Viessmann demonstrates at its own head office in Allendorf (Eder) that the energy and climate policy goals set by the German government for 2050 can in fact be achieved today with the help of commercially available technology.

**Milestones of heating technology**

As environmental pioneer and technological trailblazer for the heating sector, Viessmann has for decades been supplying exceptionally clean and efficient systems for heating, refrigeration and decentralised power generation. Many of the company’s developments are recognised as heating equipment milestones.

**Viessmann comprehensive range**

- Boilers for oil or gas
- Combined heat and power generation
- Hybrid appliances
- Heat pumps
- Wood combustion technology
- Biogas production plants
- Biogas upgrading plants
- Solar thermal
- Photovoltaic
- Electric heating/DHW systems
- Refrigeration systems
- Accessories

**Practical partnership**

As part of its comprehensive range, Viessmann also offers a wide selection of complementary services. These services include a comprehensive training and further development programme for trade partners at the well equipped training facilities of the Viessmann Academy.

With its new digital services, Viessmann offers innovative solutions such as the operation and monitoring of heating systems by smartphone. Users benefit from greater reassurance and convenience, whilst contractors can keep a constant eye on the systems for which they are responsible.

We create living space for future generations.
Viessmann is a leading international manufacturer of efficient energy systems.

**VIETNAM GROUP IN FIGURES**

- **1917**: Viessmann was founded
- **12,100**: employees
- **2.37**: Group turnover in billions of euros
- **55**: export share in percent
- **23**: production companies in
- **12**: countries
- **120**: sales offices worldwide
- **74**: countries with agents and sales companies