



Electric Underfloor Heating System Catalogue



Levson

LEVSON specialises in the research, development and manufacturing of graphene-based green heating products. Our solutions not only support net-zero and carbon-reduction goals, but also offer faster and easier installation compared with conventional systems.

Our technologies are applied across a wide range of sectors, including new-energy vehicles, industrial facilities, agriculture and domestic housing. We serve both individual and commercial clients – from vineyards, factories and residential care homes to home-appliance brands seeking innovation. In addition, DIY enthusiasts have adopted our products in yoga mats, heated blankets and customised projects.

Levson differentiates itself by combining patented graphene nanotechnology with scalable production, delivering ultra-thin, flexible and reliable heating systems that are tailored to diverse applications.



| Graphene Underfloor Heating System

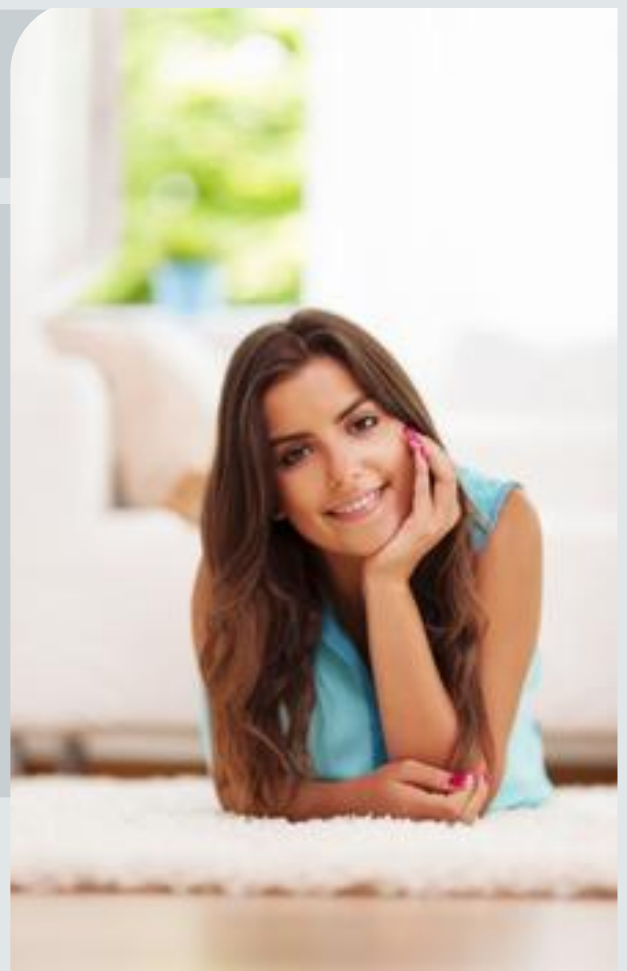


When the underfloor heating system is switched on, the graphene material generates heat as electricity flows through it. This process efficiently converts electrical energy into thermal energy, producing even and consistent warmth. Graphene also enhances infrared radiation, releasing far-infrared waves that provide comfortable and energy-saving heating. Compared with traditional materials, graphene heating offers lower power consumption and better heat distribution.

Due to its high-quality comfort and outstanding heating efficiency, underfloor heating has become a popular heating method for households in Europe.

The sense of happiness should not be taken for granted. Within the realm of home heating, warmth and comfort play a vital role in sustaining well-being and promoting good health.

While there are many ways to experience warmth, only a select few can provide true and lasting comfort.



Electric Underfloor Heating Moduel

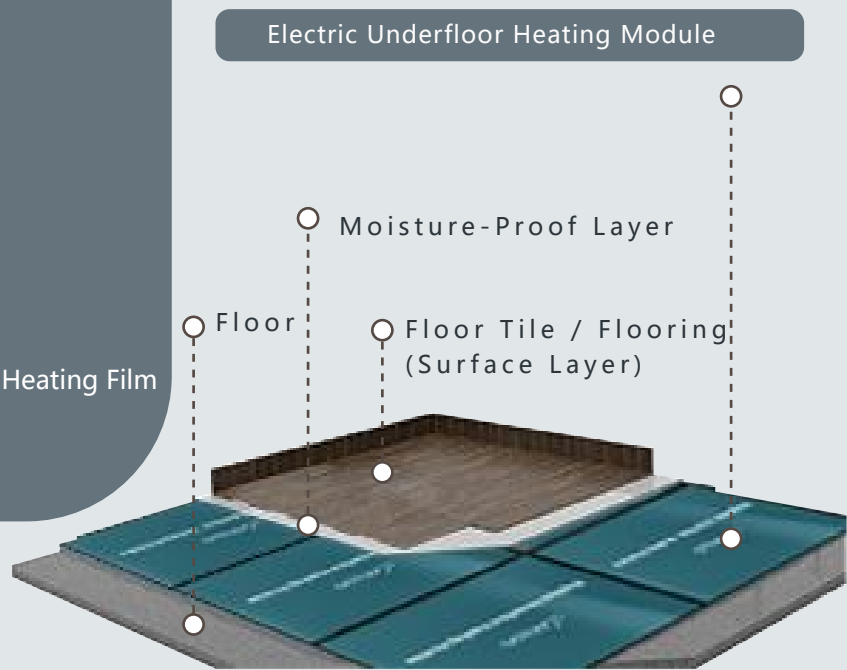


“As Easy to Install as Building Blocks”

Electric Underfloor Heating Module is an indoor heating product developed using graphene-based heating technology. It is suitable for underfloor heating installation in various types of buildings. The modules are simple to install, ready to use immediately, and feature self-regulating temperature technology. Each module can achieve a maximum surface temperature of 55°C (customisable upon request), ensuring energy efficiency and reduced power consumption.

PRODUCT INFORMATION

Product Model:	LS300
Product Power:	90 W / piece
Rated Voltage:	230V
Product Size:	830*560*21.5mm
Frequency:	50Hz
Dielectric Strength:	≥ 1000V
Insulation Resistance:	≥ 50 MΩ
Ingress Protection Rating:	IPX6
Insulation Layer Material:	EPP Board
Heating Layer Material:	Graphene Electric Heating Film
Heat Distribution Protection Layer Material:	Laminated Aluminum Plate





Underfloor Heating System Accessories

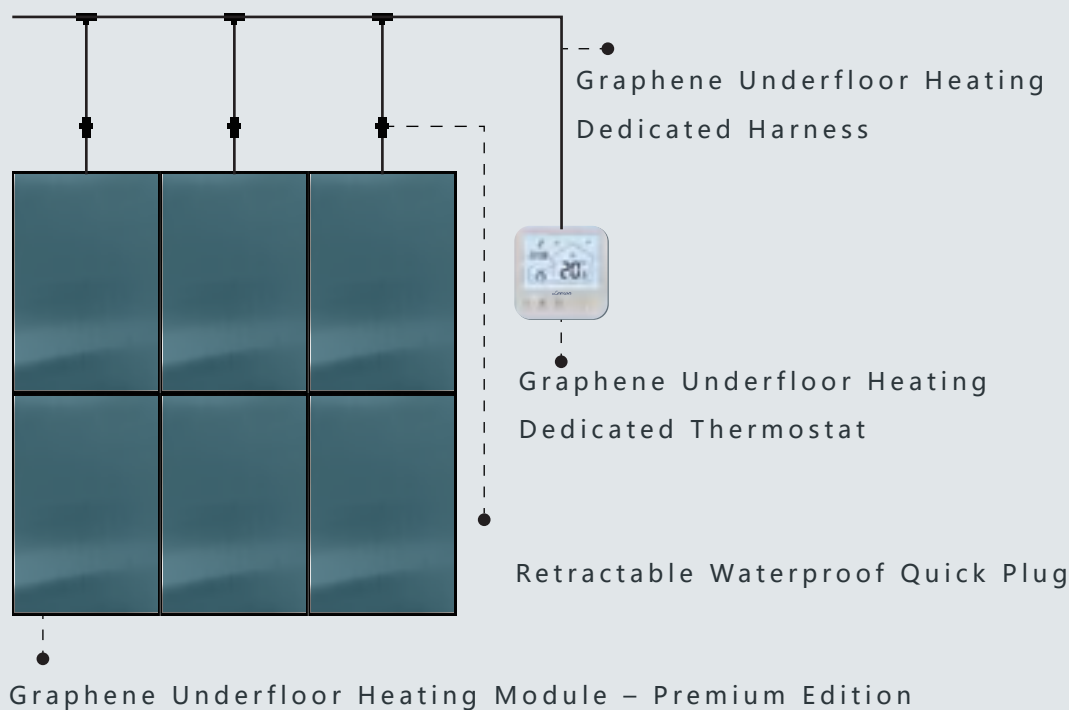
| Graphene Underfloor Heating Thermostat and Control Harness



The control harness is an essential component of the graphene electric underfloor heating system. It connects the graphene thermostat to the graphene electric underfloor heating, enabling the system to be switched on/off via the wiring centre.

The graphene underfloor heating thermostat operates electronically to switch the graphene electric underfloor heating on and off, delivering heat to specific zones and regulating the temperature of those areas. The thermostat is wall-mounted and functions via the wiring centre.

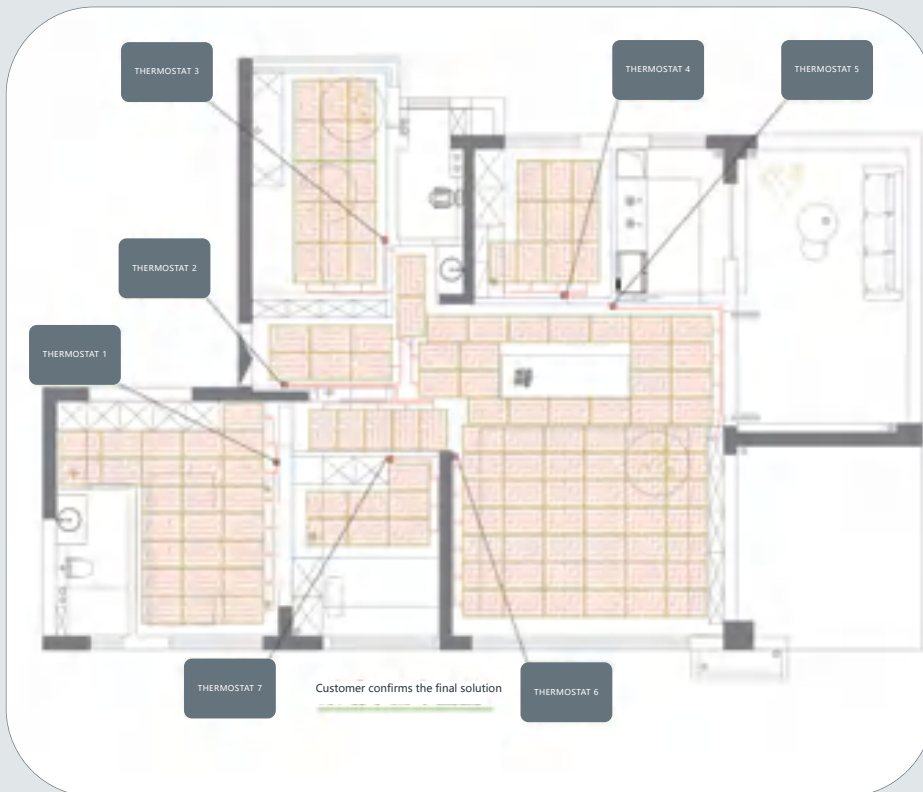
| Graphene Underfloor Heating Connection Harness



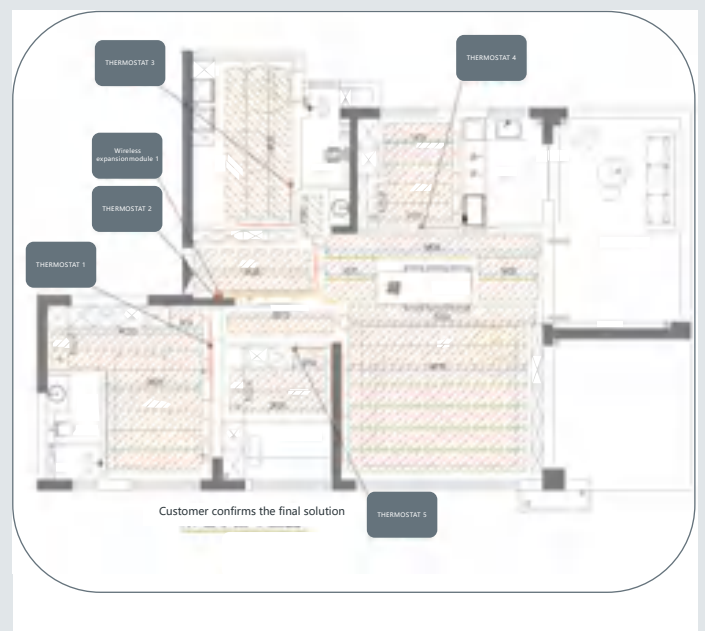
Electric Underfloor Heating Module Connection Harness



| Graphene Underfloor Heating System Planning and Design



Our heating specialists adopt a holistic approach during the consultation stage, taking into account all aspects of your home, including outdoor temperature, external walls, insulation levels, and whether any adjoining rooms are prepared for heating. With the latest products and the expertise of our customer service team, you can be confident that we will design a tailored solution that ensures comfort, eco-friendliness, and energy efficiency.



PRODUCT SPECIFICATIONS

With our expertise, designing an underfloor heating system is a straightforward process that involves four steps:

- 1、 Customer provides the floor layout plan
- 2、 Design of a heating solution based on the building characteristics
- 3、 On-site measurement verification
- 4、 Customer confirms the final solution

| Graphene Underfloor Heating System Surface Finishes Guide

Wooden

Different types of wooden flooring have varying thermal properties, which affect their suitability for use with underfloor heating systems. It is recommended to use flooring specifically designed for underfloor heating or SPC flooring. The denser and thinner the wood, the better its thermal conductivity, making it more suitable for use with heating systems.

Concrete

Polished concrete is an ideal finish for underfloor heating. As a direct conductor of heat into the room, concrete combined with its high thermal mass makes the most of the underfloor heating system.

Carpe

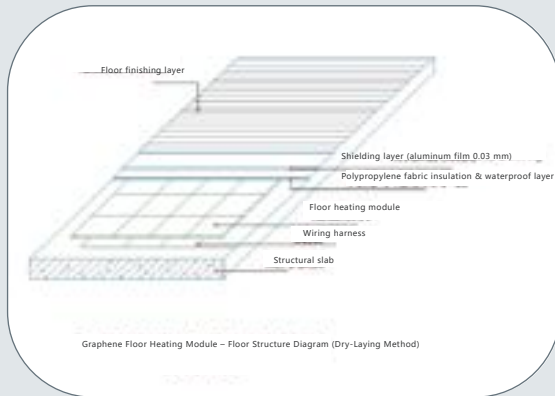
Carpets are not recommended. Most carpets, especially those made from wool or with deep piles, act as insulators and slow down the transfer of heat from the floor to the air above. The thicker the carpet, the greater the thermal resistance.

Tiles and Stone

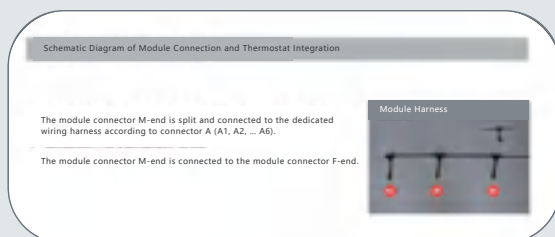
Similar to concrete, tiles and stone are among the best surface finishes for underfloor heating due to their high thermal mass and excellent conductivity. Heat from the heating elements transfers quickly to the surface, and additional thickness does not reduce output. Tiles can be heated up to 29°C or higher, allowing for one of the highest levels of heat output.



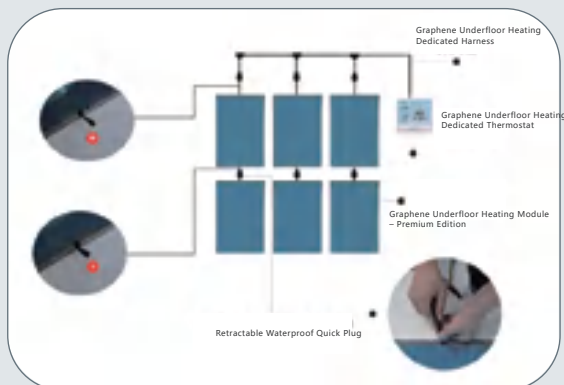
Installation Process of Graphene Floor Heating Modules



The time required to reach the desired temperature may vary slightly depending on the density and thickness of the wooden floor. Floors with higher density and smaller thickness heat up more quickly, taking about 30 minutes for the surface temperature to reach around 29 °C. It is recommended not to switch the thermostat power on and off frequently during use; instead, allow the thermostat to regulate the temperature automatically.



The graphene floor heating module warms up relatively gently. Therefore, try to minimize heat loss caused by rapid airflow of cold air from open doors and windows, in order to avoid reducing the heating efficiency.



If wooden flooring is laid directly over the floor heating modules, it is strictly forbidden to cover the surface of the heated area with objects (such as carpets, mats, etc.), as this may obstruct heat dissipation and could potentially cause a fire.

Do not block the thermostat with furniture or other objects, and avoid placing heat sources near it, as this may cause temperature control errors.

Do not change the thermostat's position at will. Since it contains precision electronic components, avoid shaking or moving it to prevent damage.

Keep the thermostat dry and clean. Prevent dust or putty from entering the interior, which may affect the sensor and result in inaccurate temperature readings.

Always use the thermostat strictly in accordance with the instruction manual. Do not overload it, and do not attempt to disassemble it yourself.

When using the graphene floor heating module system for the first heating season, set the temperature 2–4 °C higher than the ambient temperature. After the system reaches a stable temperature, adjust it to your desired indoor temperature. This helps prevent damage to furniture and flooring caused by sudden large temperature changes.

It is strictly prohibited to drill holes, drive nails, or carry out any activities that may damage the graphene floor heating modules in the installation area.

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For indoor use only

Must be installed by qualified electrician