

暖晖热能
SUNAURA THERMAL

-Redefining Intelligent Heat-

Product Brochure

暖晖热能
SUNAURA THERMAL

ABOUT US

SunAura Thermal: Corporate Profile

Preamble: A Legacy of Warmth, A Future of Innovation

Founded in 2008 and based in Qingdao, SunAura Thermal builds on a rich heritage in China's electric heating sector dating back to 2003. We are dedicated to redefining intelligent heating, transforming everyday spaces with optimal comfort and seamless integration.

Operational Excellence

As an integrated manufacturer and global supplier, we specialize in advanced electric heating solutions. Our modern facility features six automated lines producing a diverse range of products, including graphene heating films, flexible heating films, heating cables, graphene art frames, heaters, blankets, seat cushions, and innovative wearable applications. Each product reflects our commitment to quality, energy efficiency, and durability.

Global Impact, Sustainable Mission

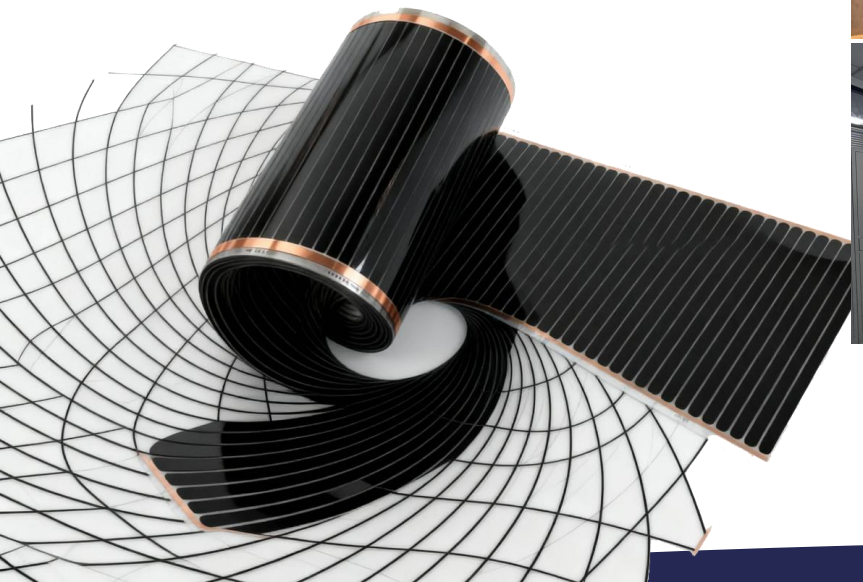
Driven by a commitment to sustainability, we promote clean energy heating worldwide. Our systems are trusted by clients across more than 50 countries and regions in Europe and Asia, providing eco-friendly warmth that supports global energy transition goals.



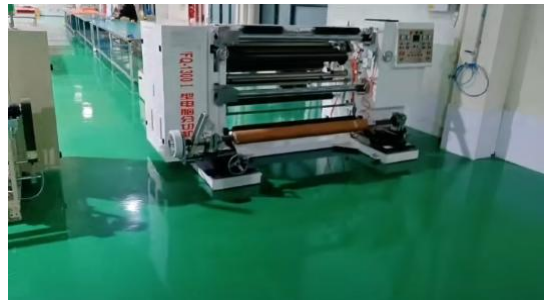
Company Profile

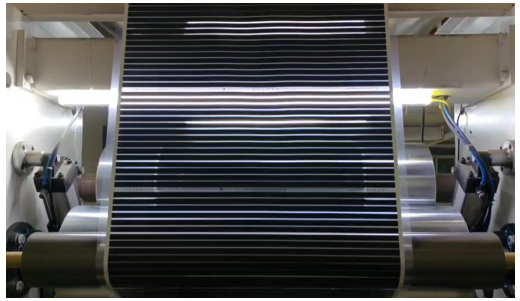
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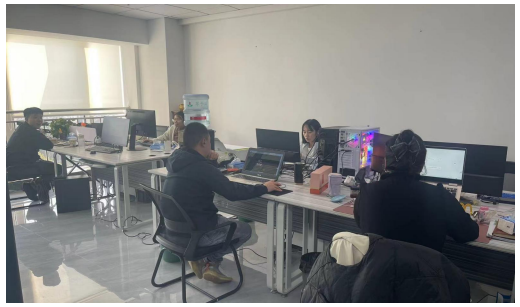
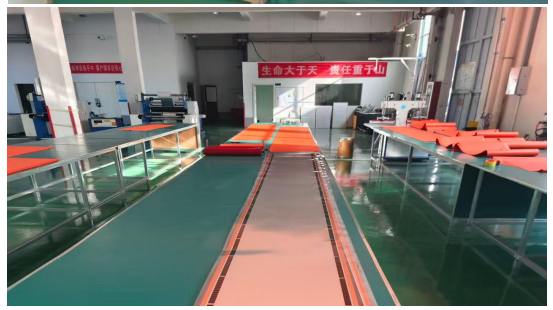
Every product from our facilities is a testament to our commitment to superior quality, energy efficiency, and enduring performance.





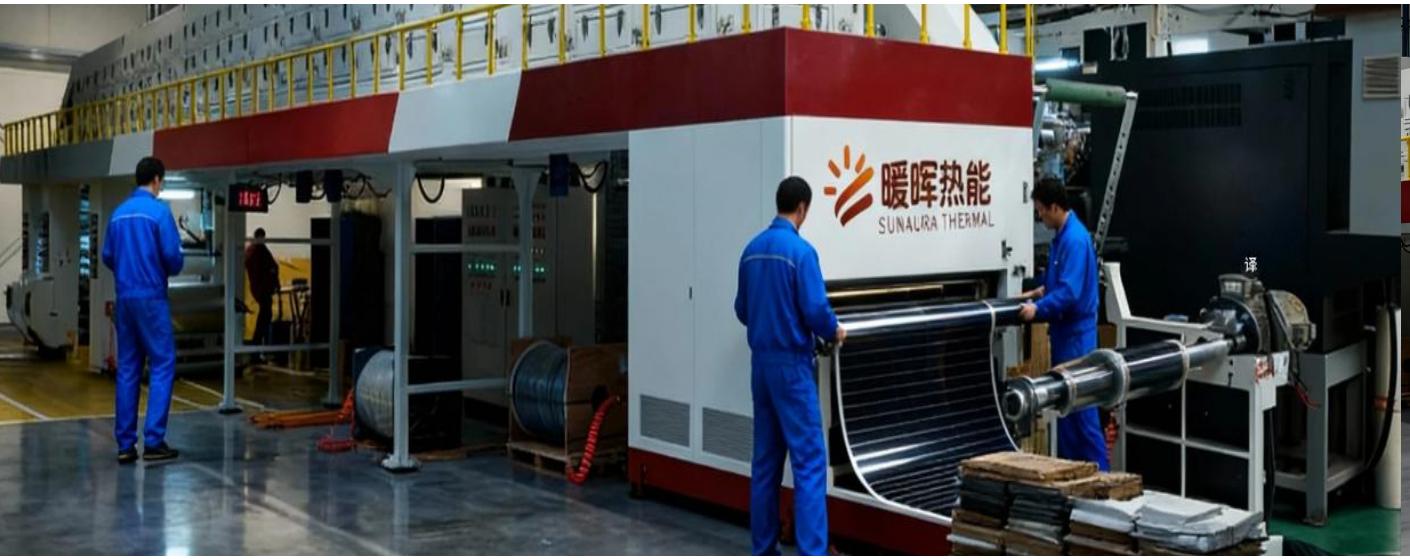



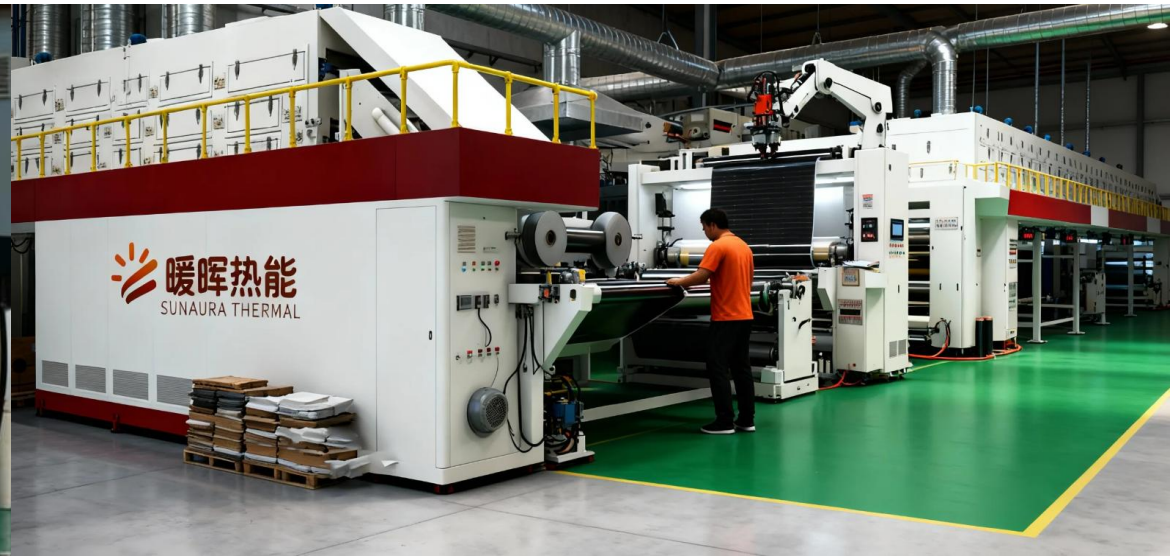


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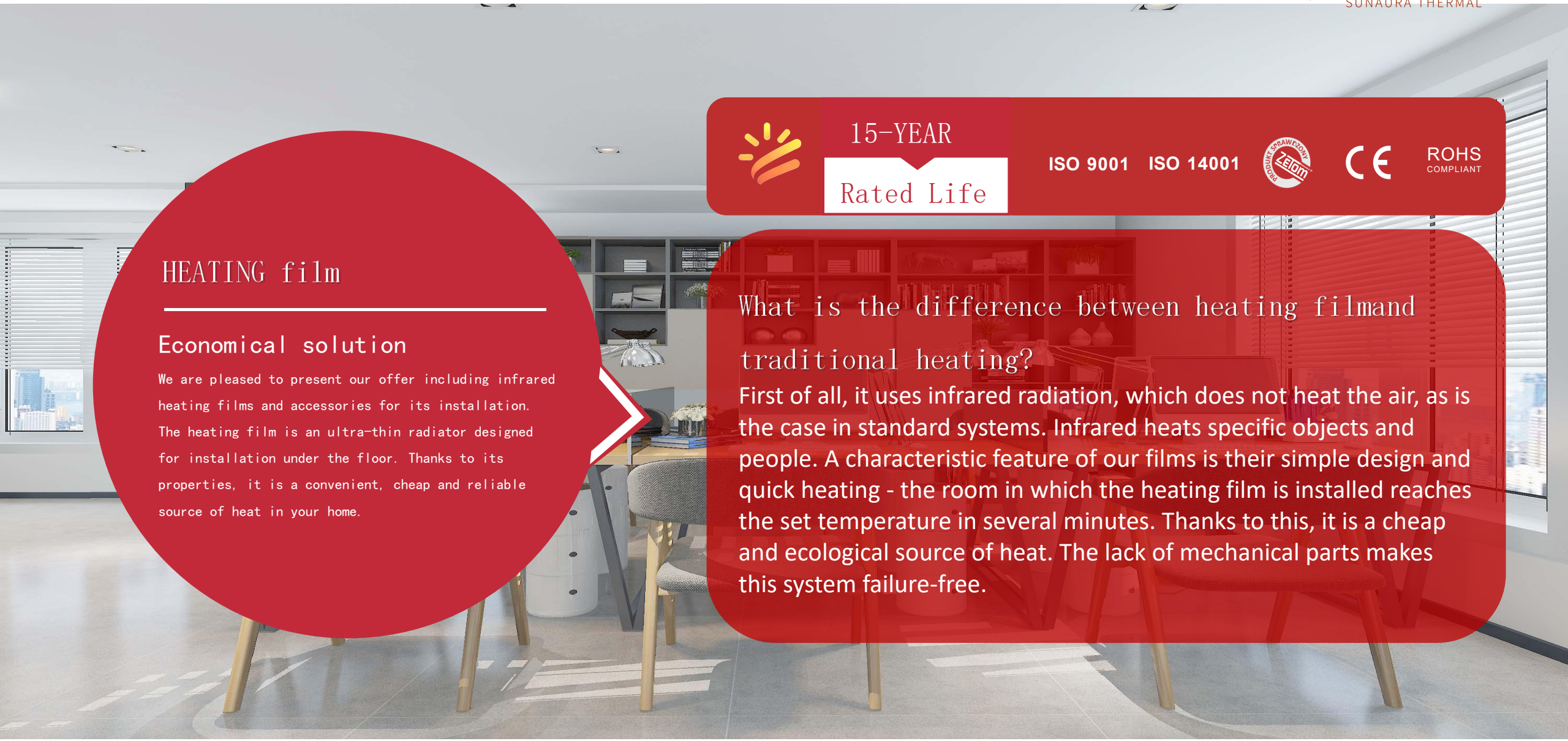


High-Performance film. Performance You Trust.

Since our inception, we have always strived for the highest standards, enabling us to stay ahead of the industry and pursue continuous innovation. Our modern, high-performance heating film production line stands as our undeniable core strength. Located in Qingdao, Shandong, China, our production base ensures the delivery of high-quality heating films that meet stringent parameter requirements. The entire production process strictly complies with the ISO 9001 and 14001 certification systems, fully adhering to the most rigorous quality and environmental standards, and perfectly aligning with the highest industry demands.

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HEATING film

Economical solution

We are pleased to present our offer including infrared heating films and accessories for its installation. The heating film is an ultra-thin radiator designed for installation under the floor. Thanks to its properties, it is a convenient, cheap and reliable source of heat in your home.

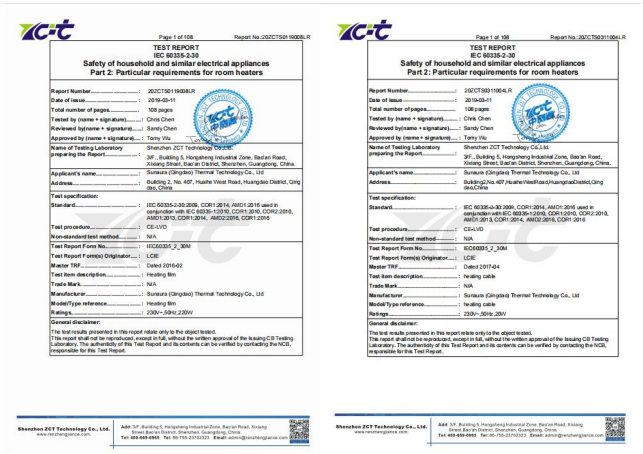
What is the difference between heating filmand traditional heating?

First of all, it uses infrared radiation, which does not heat the air, as is the case in standard systems. Infrared heats specific objects and people. A characteristic feature of our films is their simple design and quick heating - the room in which the heating film is installed reaches the set temperature in several minutes. Thanks to this, it is a cheap and ecological source of heat. The lack of mechanical parts makes this system failure-free.

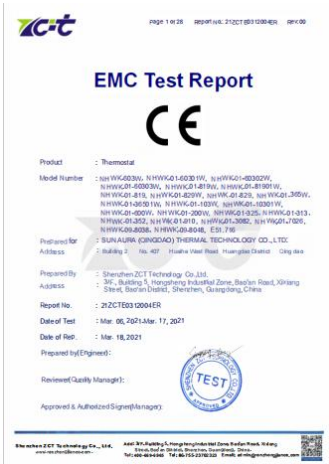
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TEST REPORT
IEC 60335-2-30
Safety of household and similar electrical appliances
Part 2: Particular requirements for room heaters

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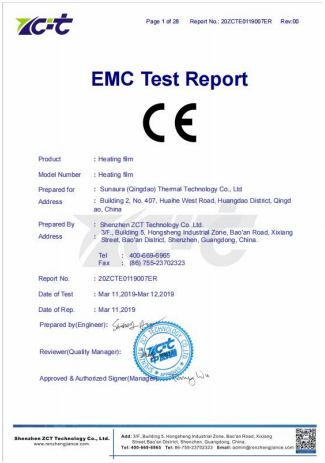

EMC Test Report
CE


EN60730-1:2016, EN 60730-2-9:2016
LVD MEASUREMENT AND TEST REPORT
FOR


CERTIFICATE OF CONFORMITY


Verification of Conformity


Verification of Conformity


EMC Test Report
CE


Verification of Conformity


SGS
Verification Report


RoHS Test Report


RoHS Test Report


检 验 报 告
TEST REPORT


广东省微生物分析检测中心
分 析 检 测 报 告
REPORT FOR ANALYSIS

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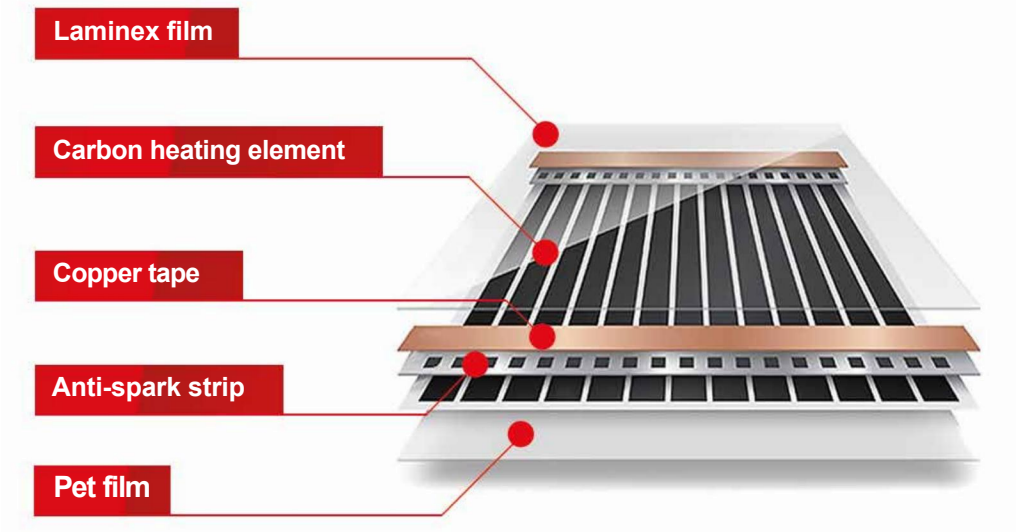
Benefits at the use stage

- Failure-free
- No maintenance required
- Different temperature in each room
- Uniform heat distribution
- Fast heating of rooms
- Programmable thermostat

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Construction of the heating film



A simple and economical heating system that features:

- No radiators or pipes
- No boiler room
- Quick assembly - house 120 m² in 1 - 2 days
- It does not require floor reinforcement
- It does not raise dust mites or dust, making it friendly to allergy sufferers
- It can be used in new and existing buildings

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HEATING film

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Usage

Heating houses and apartments

Use of the film system as basic heating of houses, apartments or as an alternative to the currently installed heating. Additionally, the film can be used as a heater and a mir- ror anti-fog system.

Hotels and guesthouses

Individual heating of individual rooms in hotels guarantees the lowest heating costs. We avoid unnecessary heating of interiors at low occupancy.

Restaurants

The lack of radiators on the walls allows for free interior design. Surface heating con- trolled by a thermoregulator allows full control of the temperature in each zone, redu- cing operating costs.

Churches

Heating religious buildings with heating films is an efficient way to provide warmth to the faithful. The heating film system guarantees immediate heat and low operating costs.

Office

Heating with our heating system guarantees thermal comfort in the workplace. Our modern thermostats allow you to set a work schedule so that the system lowers the temperature outside office opening hours.

Fitness

The use of surface heating guarantees precise temperature regulation, the heat spre- ads evenly, creating an ideal atmosphere for people exercising.

Kindergartens

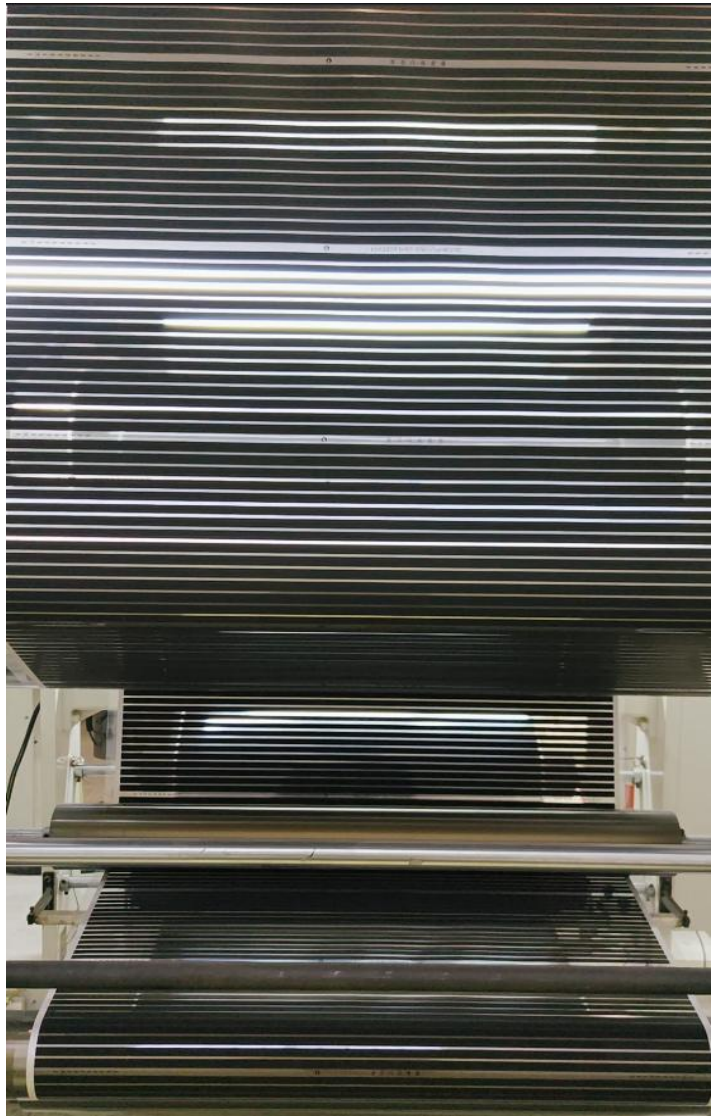
The heating film gives the effect of a warm floor. Unlike other forms of heating, it cre- ates ideal conditions for children to learn and play.

Camping / Caravaning

Heating film powered by direct current is an ideal source of heat in caravans, campers and wherever we do not have access to 230V.

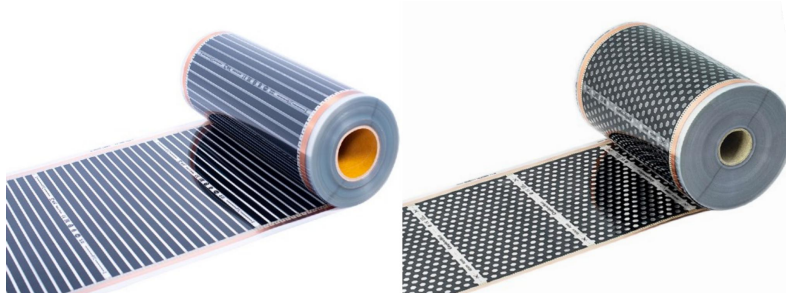
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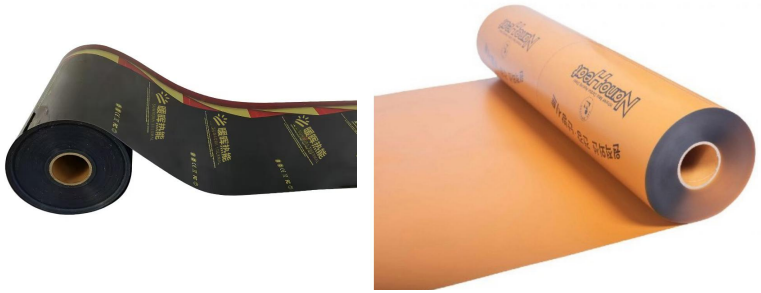


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NHHF - T NHHF - T2



NHHF - F NHHF - Z

Features:

Quick installation and ready for immediate use.

Eco-friendly, noise-free, dust-free, and pollution-free operation.

Space-saving design for underfloor heating products.

Energy consumption decreases as temperature increases.

Easily set different temperatures for individual rooms with a thermostat.

Releases negative ions to purify the air with no oxygen consumption.

Easy control via thermostat and WiFi communication, allowing pre-heating before arriving home.

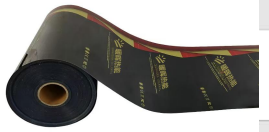
Core technology with patent-protected design and IP67 waterproof rating.

Rapid heating with thermal conversion efficiency exceeding 99%.

15-year warranty and a service life of over 30 years.

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Pic	Model	Item	Width	Length	Power/M2	Voltage	Thickness	PTC	Note
	NHHF-30-150T	Graphene Carbon Heating Film	30cm	150M	220W	110V or 220V 50HZ	0.338mm	Customizable	Graphene Carbon fiber heating film Efficient and durable
	NHHF-50-150T	Graphene Carbon Heating Film	50cm	150M	220W	110V or 220V 50HZ	0.338mm	Customizable Variable : 25%	…
	NHHF-80-100T	Graphene Carbon Heating Film	80cm	100M	220W	110V or 220V 50HZ	0.338mm	Customizable Variable : 20%	…
	NHHF-100-100T	Graphene Carbon Heating Film	100cm	100M	220W	110V or 220V 50HZ	0.338mm	Customizable Variable : 17%	…
	NHHF-50-150T2	Graphene Carbon Heating Film	50cm	150M	220W	110V or 220V 50HZ	0.338mm	Customizable Variable : 25%	Graphene Carbon fiber heating film Efficient and durable
	NHHF-80-100T2	Graphene Carbon Heating Film	80cm	100M	220W	110V or 220V 50HZ	0.338mm	Customizable Variable : 20%	…
	NHHF-100-100T2	Graphene Carbon Heating Film	100cm	100M	220W	110V or 220V 50HZ	0.338mm	Customizable Variable : 17%	…
	NHHF-50-150F	Protective Heating Film	50cm	150M	220W	110V or 220V 50HZ	0.42mm	..	Thicker protection, more durable and not easy to damage
	NHHF-80-100F	Protective Heating Film	80cm	100M	220W	110V or 220V 50HZ	0.42mm	..	…
	NHHF-100-100F	Protective Heating Film	100cm	100M	220W	110V or 220V 50HZ	0.42mm	..	…
	NHHF-100-80Z	Enhanced Heating Film	100cm	80M	230W	110V or 220V 50HZ	0.7mm	..	Full-surface graphene carbon paste covering technology, more efficient

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HEATING film-SETS

Heating film with a thermostat for self-assembly

Infrared heating films can be installed yourself thanks to ready-made assembly kits. The set includes all the necessary elements for quick assembly. The attached instructions will guide you through the entire film installation process.

Components used during installation:

Sunauro heatng film

Selected Sunauro thermoregulator

Tape for mountng the heating film

Additional accessores-clips ,insulation layer ,stripper ,Crimp plier ,RV wire,etc.

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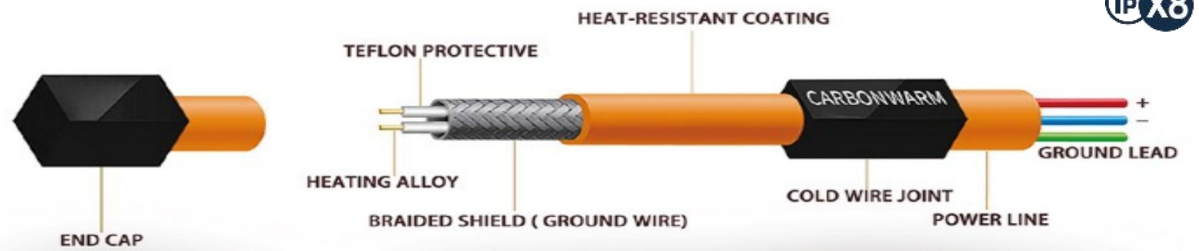
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NON ELECTROMAGNETIC RADIATION

IP X8



Storage heating - warmth and protection against cold

Double conductor double heating cable, made by special alloy resistance wire, no oxidation, stable transmission without Decay.

Teflon insulation layer perform better anti-corrosion and IPX 8 moisture proof.

Fast heating, Easy to install, Same as the life of the building.

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Pic	Model	Item	Length	Power/M	Power/Total
	NHHC-01-12.5	Double conductor double heating cable	12.5M	20W	250W
	NHHC-01-25	Double conductor double heating cable	25M	20W	500W
	NHHC-01-50	Double conductor double heating cable	50M	20W	1000W
	NHHC-01-75	Double conductor double heating cable	75M	20W	1500W
	NHHC-01-100	Double conductor double heating cable	100M	20W	2000W
	NHHC-01-125	Double conductor double heating cable	125M	20W	2500W
	NHHC-01-150	Double conductor double heating cable	150M	20W	3000W

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HEATING MATS

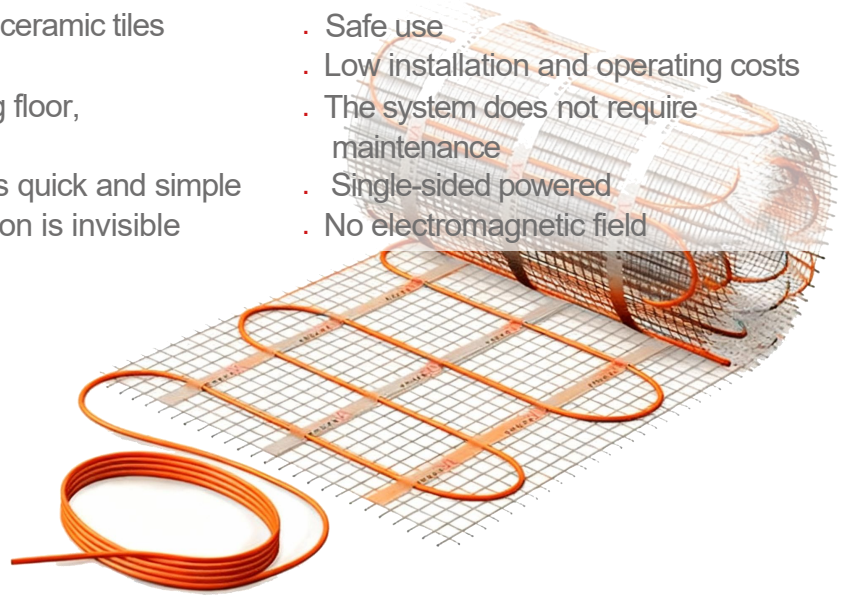


For the bathroom, kitchen and garage

SUNAURA heating mats are intended for heating floors covered with ceramic, stone or stoneware tiles. The power of 160W/m² guarantees quick heating of the room. SUNAURA heating mats are safe to use, double insulated and shielded along the entire length of the heating cable, which protects against electro-magnetic radiation and possible electric shock.

Advantages of heating mats

- Possibility of installation in glue under ceramic tiles
- Heating mat thickness: 3.6 mm
- Possibility of installation on an existing floor, without having to cuff the old one
- The mat is self-adhesive - installation is quick and simple
- After installation, the heating installation is invisible
- Safe use
- Low installation and operating costs
- The system does not require maintenance
- Single-sided powered
- No electromagnetic field

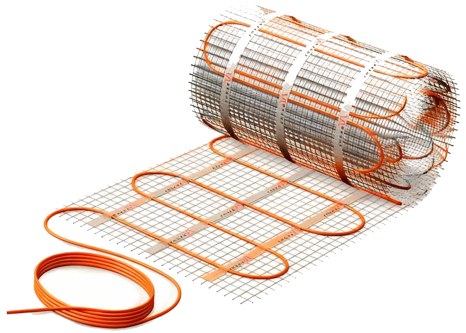


25-YEAR
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Pic	Model	Item	Width	Length	Power/M2	Voltage	Area	Power/Total	
	NHHC-02-0.5	Heating mat	0.5M	1M	160W	110V or 230V	0.5M2	80W	
	NHHC-02-1	Heating mat	0.5M	2M	160W	110V or 230V	1M2	160W	
	NHHC-02-2	Heating mat	0.5M	4M	160W	110V or 230V	2M2	320W	
	NHHC-02-3	Heating mat	0.5M	6M	160W	110V or 230V	3M2	480W	
	NHHC-02-4	Heating mat	0.5M	8M	160W	110V or 230V	4M2	640W	
	NHHC-02-5	Heating mat	0.5M	10M	160W	110V or 230V	5M2	800W	
	NHHC-02-6	Heating mat	0.5M	12M	160W	110V or 230V	6M2	960W	
	NHHC-02-7	Heating mat	0.5M	14M	160W	110V or 230V	7M2	1120W	
	NHHC-02-8	Heating mat	0.5M	16M	160W	110V or 230V	8M2	1280W	
	NHHC-02-9	Heating mat	0.5M	18M	160W	110V or 230V	9M2	1440W	
	NHHC-02-10	Heating mat	0.5M	20M	160W	110V or 230V	10M2	1600W	
	NHHC-02-11	Heating mat	0.5M	22M	160W	110V or 230V	11M2	1760W	
	NHHC-02-12	Heating mat	0.5M	24M	160W	110V or 230V	12M2	1920W	

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Aluminum film mat



▼0.5mm Ultra-thin heating mat Heat up in 3 minutes

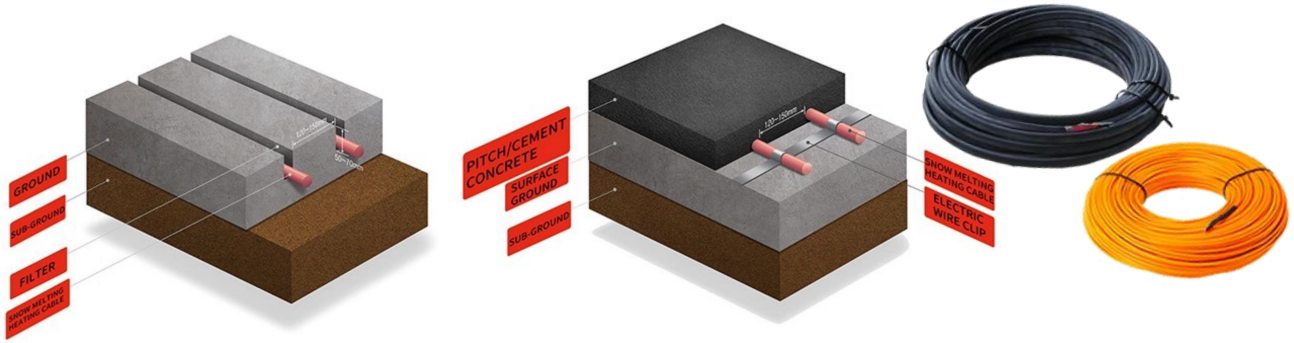
Model	Item	Width	Length	Power/M2	Voltage	Power/ Total	Area
NHHC-03-1	Aluminum film mat	0.5M	2M	160W	110V or 230V	160W	1M²
NHHC-03-2	Aluminum film mat	0.5M	4M	160W	110V or 230V	320W	2M²
NHHC-03-3	Aluminum film mat	0.5M	6M	160W	110V or 230V	480W	3M²
NHHC-03-4	Aluminum film mat	0.5M	8M	160W	110V or 230V	640W	4M²
NHHC-03-5	Aluminum film mat	0.5M	10M	160W	110V or 230V	800W	5M²
NHHC-03-6	Aluminum film mat	0.5M	12M	160W	110V or 230V	960W	6M²
NHHC-03-7	Aluminum film mat	0.5M	14M	160W	110V or 230V	1120W	7M²
NHHC-03-8	Aluminum film mat	0.5M	16M	160W	110V or 230V	1280W	8M²
NHHC-03-9	Aluminum film mat	0.5M	18M	160W	110V or 230V	1440W	9M²
NHHC-03-10	Aluminum film mat	0.5M	20M	160W	110V or 230V	1600W	10M²

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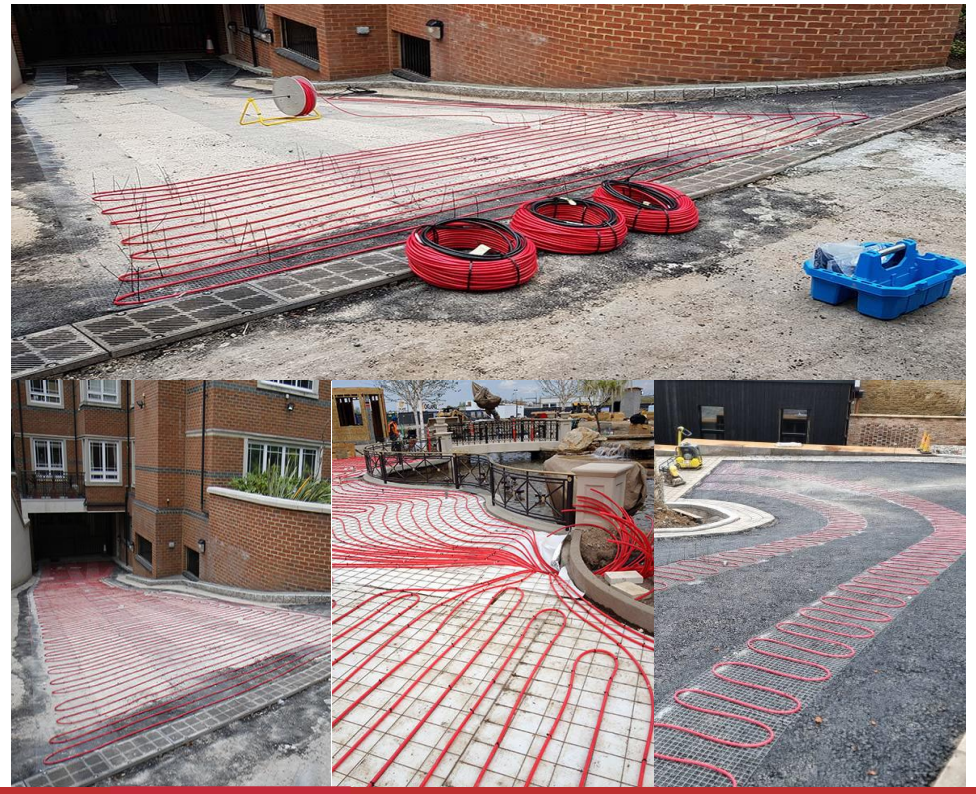
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Road snowmelt heating cable



Model	Item	Length	Power/M	Voltage	Power/Total
NHHC-07-40	Road snowmelt heating cable	40M	40W	220V	1600W
NHHC-07-60	Road snowmelt heating cable	60M	40W	220V	2400W
NHHC-07-80	Road snowmelt heating cable	80M	40W	220V	3200W
NHHC-07-100	Road snowmelt heating cable	100M	40W	220V	4000W
NHHC-07-120	Road snowmelt heating cable	120M	40W	220V	4800W



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Roof snowmelt





Pic	Model	Item	Length	Power/M	Voltage	Power/Total
IP X8	NHHC-06-10	Roof snowmelt	10M	16W	230V	160W
	NHHC-06-15	Roof snowmelt	15M	16W	230V	240W
	NHHC-06-20	Roof snowmelt	20M	16W	230V	320W
	NHHC-06-25	Roof snowmelt	25M	16W	230V	400W
	NHHC-06-30	Roof snowmelt	30M	16W	230V	480W
	NHHC-06-40	Roof snowmelt	40M	16W	230V	640W
	NHHC-06-50	Roof snowmelt	50M	16W	230V	800W

Model	Item	Length	Power/M	Voltage	Pic
NHHC-05	Pipe Anti-freeze	1M - 49M	16W	230V	

Heating cable can **automatically** complete the pipeline antifreeze work.
When the temperature drops to three degrees, it will turn on start work.

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THERMOSTATS



Comfortable heat control

IP20 - IP31

Thermoregulators precisely control electric heating, improving comfort and reducing electricity bills. Floor temperature sensors ensure that the floor is not at risk of overheating. An air temperature sensor, on the other hand, will ensure that the room temperature is ideal. We can operate the thermoregulators with buttons or dials. The more technically advanced models are equipped with an LED or LCD display. We also offer thermoregulators equipped with a Wi-Fi module, which allows you to control your heating from virtually anywhere in the world with internet access.










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THERMOSTATS





IP31

WFII

The WIFI thermostat is a device that allows you to control your heating system. Many years of experience of our engineers have enabled us to create an advanced thermostat equipped with in non- -standard functionalities. Increase the comfort of you and your family, minimize heat losses and use many innovative solutions. The device works with the Tuya Smart applications. The ther-moregulator has the ability to freely program the weekly work schedule, so you will forget about manually setting the temperature. The WIFI thermostat protects the installation against overheating and informs about its incorrect operation. In the event of a failure of the external temperature sensor, the thermoregulator displays a message and turns off the heating system, so you can be sure that the instal- lation is always safe.

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Heater Art-Panel



Graphene Heater-Art Panel

Provides you with a comfortable heating solution through circular 3D warming, delivering an expansive heating experience. Utilizing the principle of air convection circulation, it ensures balanced heat distribution throughout the room for consistent and cozy warmth. The smart temperature control automatically stops when the set temperature is reached and restarts when the temperature drops, avoiding uncomfortable fluctuations while saving energy and reducing power consumption.



SunAura Thermal

Redefining Intelligent Heat.

SGS Certified Supplier

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