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**MENRED GROUP**

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# menred

## Electric Underfloor Heating Mat





# Company Introduction

MENRED since 1995, is a leading global manufacturing industry cluster of "radiant heating and cooling, ventilation, water purification and smart home", a partner of the National Key Laboratory of "Future Building".

MENRED Comfort Home went from temperature control to systematic air conditioner, from saving on bill to energy efficient, from product to user thinking. We are passionate about comfort home product solutions, innovative development of green building equipment, engineering application and research of Building Integrated Photovoltaic (BIPV) and energy storage.

We are based on industry, believe in digital manufacturing. MENRED has four industrial parks, including German Weißwasser industrial park, Lingkun Island green building industrial park(heating and cooling), Jiaxing Environmental Technology industrial park(ventilation and water purification) and 5mg heat pump air conditioning industrial park. We have reached strategic cooperation with China Academy of Building Research and Dais technology U.S. to build a national standard environmental technology laboratory, CNAS-accredited 'Dongming Polymer Laboratory', Migratory Bird New Energy Housing Research Institute and miBEE Digital HVAC Platform, insisting on tamping the industrial foundation of 'Industry, Academia, Research and Use'

We serve the world and pursue win-win cooperation. There are 2,700 of our offline retailer stores in China, our operation and service organizations are spread worldwide. We created a Comfort Home Industry Internet platform, created a S2b2C business model to empower and servedistributors. 'Four online' of our Ljj App is built for the purpose of increasing efficiency and reducing costs: Staff Online, Product Online, Customer Online, Management Online. A growth flywheel with four components was built: product innovation, classification, customer experience, platform empowerment. We serve the world and pursue win-win cooperation with more than 3,000 partners and 15,000 online members

We preserve nature and seek for sustainable development. In the context of global climate change and Chinese national strategy of emission peak and carbon neutral, we should be in awe of life, production should be in harmony with nature, setting a self deadline for energy resource recycling and efficient utilization and route map. Innovative thinking and start-ups for carbon neutrality, practicing PEDF(photovoltaic, energy storage, direct current, flexibility) to assist the development of zero carbon emission production, promoting the upgrading on technologies of new energy house and nearly zero energy building. We have our mission always in mind: Innovation for building carbon neutrality.



\*MENRED GROUP 4 major industrial parks





**A New Choice For  
Comfort  
Energy Saving & Health**



## **Natural and comfortable radiant heat**

Provides warmth through radiant heating instead of convection. Floors, walls, and furniture are heated first and then gently release heat, creating a naturally cozy indoor climate.



## **Cost-Effective & Ideal for Renovations**

Electric underfloor heating offers low installation costs and quick setup, making it especially suitable for renovation projects without expensive modifications to existing heating systems



## **Flexible Specifications & Customization**

Available in various power outputs (125–250 W/m<sup>2</sup>) and sizes (widths from 0.4 m to 1 m, lengths up to 30 m). Customized solutions are also possible to meet different space requirements.



## **Easy Installation & Versatile Application**

Can be installed under a wide range of solid, heat-resistant floorings such as tiles, marble, carpet, PVC, laminate, and wood.



# Menred

## Electric UnderFloor Heating Mat

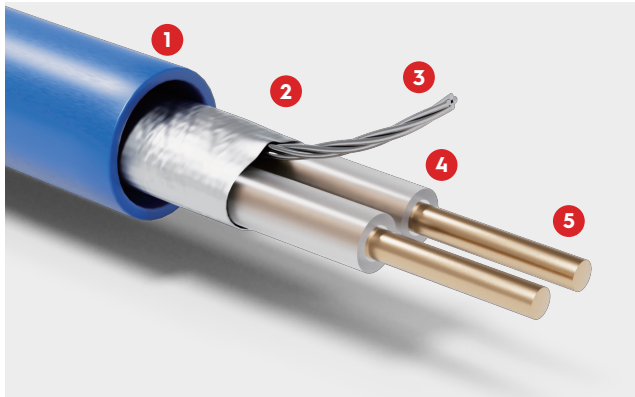
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### TECHNICAL DATA

Voltage: 220 VAC	Protective measure: FI circuit breaker 30 mA
Power(mat): 150/200 W/m <sup>2</sup>	Fuse protection: 10 A(characteristic-B)
Power (conductor): 13 W/m	Min.installation temp.: +5°C
Width of mat: 0.50 m	Connecting cable : 3.00 m
Size(conductor): Φ approx. 3.5 mm	Test voltage: 2000-4000 V
Radius of bend: 40mm	Carrier material : Glass fibre mat
Nominal temp. limit: +90°C	

Rated Power	150W/m <sup>2</sup>			200W/m <sup>2</sup>		
	Product Model	Area	Dimensions	Product Model	Area	Dimensions
225W	TM 15015	1.5m <sup>2</sup>	0.50×3.0m	TM 20011	1.1m <sup>2</sup>	0.5m×2.3m
300W	TM 15020	2.0m <sup>2</sup>	0.50×4.0m	TM 20015	1.5m <sup>2</sup>	0.5m×3.0m
375W	TM 15025	2.5m <sup>2</sup>	0.50×5.0m	TM 20019	1.9m <sup>2</sup>	0.5m×3.8m
450W	TM 15030	3.0m <sup>2</sup>	0.50×6.0m	TM 20023	2.3m <sup>2</sup>	0.5m×4.5m
525W	TM 15035	3.5m <sup>2</sup>	0.50×7.0m	TM 20026	2.6m <sup>2</sup>	0.5m×5.3m
600W	TM 15040	4.0m <sup>2</sup>	0.50×8.0m	TM 20030	3.0m <sup>2</sup>	0.5m×6.0m
675W	TM 15045	4.5m <sup>2</sup>	0.50×9.0m	TM 20034	3.4m <sup>2</sup>	0.5m×6.8m
750W	TM 15050	5.0m <sup>2</sup>	0.50×10.0m	TM 20038	3.8m <sup>2</sup>	0.5m×7.5m
900W	TM 15060	6.0m <sup>2</sup>	0.50×12.0m	TM 20045	4.5m <sup>2</sup>	0.5m×9.0m
1050W	TM 15070	7.0m <sup>2</sup>	0.50×14.0m	TM 20053	5.3m <sup>2</sup>	0.5m×10.5m
1200W	TM 15080	8.0m <sup>2</sup>	0.50×16.0m	TM 20060	6.0m <sup>2</sup>	0.5m×12.0m
1350W	TM 15090	9.0m <sup>2</sup>	0.50×18.0m	TM 20068	6.8m <sup>2</sup>	0.5m×13.5m
1500W	TM 15100	10.0m <sup>2</sup>	0.50×20.0m	TM 20075	7.5m <sup>2</sup>	0.5m×15.0m
1800W	TM 15120	12.0m <sup>2</sup>	0.50×24.0m	TM 20090	9.0m <sup>2</sup>	0.5m×18.0m

### Product Structure



- 1 **Outer Sheath:** Polyvinyl Chloride (PVC)
- 2 **Protective Conductor:** Composite Aluminum Foil (PET)
- 3 **Ground wire:** Tinned Copper Grounding Wire
- 4 **Insulator:** Fluorinated Ethylene Propylene (FEP)
- 5 **Heating Element:** Copper Alloy Polymer Composite

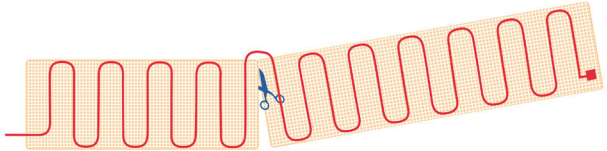
### Product Case



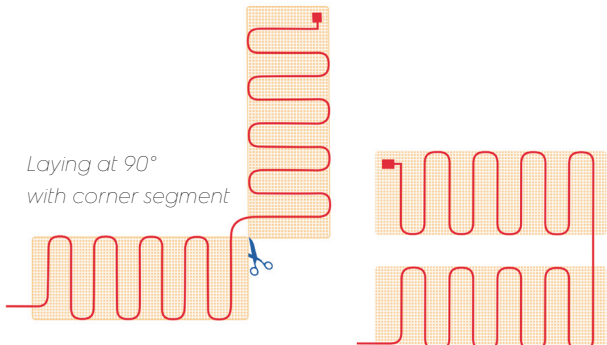
### Installation



Supplied widths: 0.40 m/0.50 m  
Connecting cable: 5.00 m



Cut in and turn up glass fibre mat



Laying in a returndirection at 180°