



Fitting Guide

Range: Heating
Type: Underfloor heating
Code: ME020 - ME028
Version/Date: v3 06/21

Phoenix Whirlpools Ltd. Unit 8, Leeds 27 Industrial Estate, Bruntcliffe Ave. Morley, Leeds LS27 0LL

Tel: 0113 201 2260

Email: sales@phoenix-uk.co.uk Web: www.phoenix-uk.co.uk

Notes: Drawings may not be to scale. All dimensions in mm unless otherwise stated.
Information correct at time of printing but subject to change at any time.

Warranty

The product is covered against Manufacturing defects for 1 year from the date of purchase. This warranty covers the replacement of the under floor heating mats only and does not extend to consequential loss or damage arising from defective product.

Warranty conditions:

- We require proof of purchase in order to validate the warranty. Therefore, please retain your invoice. If there has been any default I payment for the goods or installation then the warranty is automatically null and void.
- The heating system must be covered by an RCD (Residual Current Device) at all times.
- The heating mats must be fitted in accordance with our installation instructions; failure to install the heating mats in accordance with our installation instructions will invalidate the warranty.
- The warranty does not guarantee mats that endure accidental damage before, during or after installation. If any of our agents are required to attend site to carry out inspections and subsequent repairs to heating systems and the faults are found to be caused by anything other than a manufacturing defect, then we have the right to charge a reasonable sum for all works carried out.
- The warranty does not cover installations where a qualified electrician has not carried out the electrical connection.

CE RoHS
EMC LVD

Thank you for choosing our under floor heating mats! Now, let us enjoy its safety and comfort!

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These heating mats are suitable for most floor coverings, tiles, wood, laminate, stone, even carpet.

These heating mats are suitable for a wide range of applications, from rooms throughout your bathrooms, kitchens, living room, bedroom, public buildings, outdoor areas etc..

These heating mats have all been designed to meet Class II Standards and tested.

The heating cables are reinforced with TEFLON insulation and PVC sheath.

The heating mats can be used as a basic heating system, or can supplement your existing heating arrangements.



CAUTIONS!

READ BEFORE INSTALLATION

Never smoke during the installation.

Never cut the heating cable. Only the fiber mesh can be cut.

Never bang a trowel on the mat or heating cable to remove excess mortar from it.

Never attempt to repair the heating wire if it is damaged. Call the seller for instructions before proceeding.

Never splice one heating cable to another heating cable to make a longer cable.

Never install one mat on top of another or overlap the mat on itself. This will cause dangerous overheating.

Never step on the heating cable.

Never drop anything like tools on the heating cable.

Never install in any walls.

Never install mats under cabinets or other furniture, or in small closets. Excessive heat will build up in these small spaces, and the mat can be damaged.

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Here's What You'll Need:

- Correct size mat
- Insulation board or Aluminum foil (optional)
- Scissors
- Smooth-sided trowel or rubber float
- Adhesive or concrete
- Thermostat and floor sensor

Now you're ready to begin installing !

Step 1. Floor Preparation



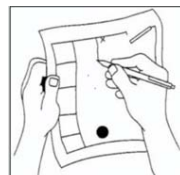
Clean the floor surface. And make sure that the floor is smooth in order to prevent any damage to the heating Mats. You will need to make a groove in the sub-floor for the cold cable connection joint, as this is slightly thicker than the heating cables. But only do this once the position of the mat has been chosen.

Step 2. Electrical preparation & Test the heating mats



Before installation, an electrical box where the cold cable and the wiring from the thermostat can be connected should be installed. If in a bathroom, the connection thermostat must not be sited within the room. **A test must be made prior to installation. Tests must then be made at every stage to make sure the mat has not been damaged during installation.**

Step 3. Positioning the heating mats

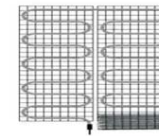
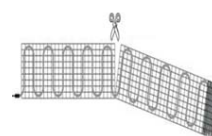


Plan the layout of the Mats in your room, indicating the thermostat. When more than one mat is used, please make sure that all wires come together at the thermostat. There should be 30cm distance between mats and wall.

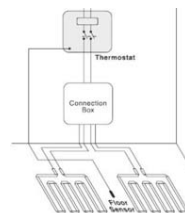
Step 4. Install the heating mat



Roll and position the heating mats as it is required. Do not forget to pull the double sided tape apart. When the heating mats need to be turned to another direction, use the scissor to cut the mats. Pay attention not to cut

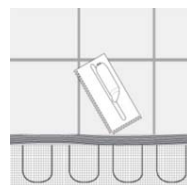


Step 5. Connect the heating cable with the thermostat



It is important that a qualified electrician makes the final connections. We also suggest you that use a connection box if more than one system is being connected. All of our thermostats have their own instructions. Do not forget to put the floor sensor on the mats. Each thermostat can load 3400W (if under 110-120V, the maximum is 1800W) at most. Please keep this number in your mind.

Step 6. Install your floor



Your mat should now be firmly fixed to the sub-floor, so it's time to cover the cable with adhesive or thin concrete. Then lay the floor tiles as normal. If you find that tiles need to be taken up for any reason, please be careful not to damage the heating system.

Congratulations! You've done it!

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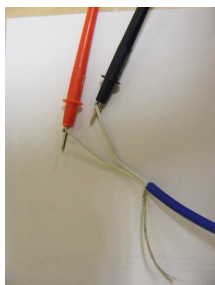
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To test that the heating mats are in good working order, firstly you must insert the testing probes into the meter in the ports as illustrated.



Then set the meter to 2000 In the green (ohms) section.



You should then touch both black and red to the white plastic coated wires in the blue outer casing. This will give you a resistance reading.

The resistance reading should be +5%/-10% of the number in the corresponding table:

Code	Matt Area [M²]	Matt Length [M]	Matt Width [M]	Total Watts	Amps	Resistance [ohms]
ME020	1	2	0.5	150	0.65	352
ME021	1.5	3	0.5	225	1	235
ME022	2	4	0.5	300	1.3	176
ME023	3	6	0.5	450	1.9	118
ME024	4	8	0.5	600	2.6	88
ME025	5	10	0.5	750	3.3	71
ME026	6	12	0.5	900	3.9	59
ME027	7	14	0.5	1050	4.6	50
ME028	8	16	0.5	1200	5.2	44