



Homelux Heatwave Under Tile Heating

Homelux Heatwave is an electric under tile heating system that can be used with most types of ceramic, porcelain, slate, marble and natural stone tiles that are fixed using tile adhesive.

Heatwave under tile heating cannot be used under laminate, vinyl, carpet or engineered wood.

Heatwave heating mats cannot be shortened – Please make sure that you buy the correct size mat for your open floor area, do not lay the heating mat under any fixed object e.g. bath, toilet, kitchen units etc.

Heatwave insulation boards are recommended to be used in all installations, there are 12mm thick and will reduce your running costs.

When selecting your tile adhesive please make sure that it is a single part powder adhesive suitable for under tile heating.

Purchase Points

Why choose electric under tile heating over water based systems?

Electric systems cost less to buy, install and maintain. They require little space and can be installed on top of existing substrates e.g. wood. There are also no control valves to hide.

Why is under tile heating better than a radiator?

Radiators create draughts through moving air currents, they also take up valuable floor space. Heatwave warms the room evenly from the floor up, meaning a constant, accurate and comfortable temperature is achieved with no hot spots or draughts.

Could this be a primary heat source for a room?

The Heatwave system is designed to be an under tile heating system that simply warms the floor and subsequently the air above it.

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Can I install it myself?

The Heatwave mat is very easy to install, but the route of the mat and position of the thermostat must be carefully planned before you start. A fully qualified electrician is required to make all the electrical connections to the thermostat.

Can the Heatwave under tile heating system be used outside?

No, it is designed for indoor use only. Homelux Heatwave system has been specifically designed for under tile applications and is not recommended for underwood, laminate or carpet floor coverings.

Is it safe?

All electrical components in the Heatwave system have the CE mark. This mark demonstrates that the product has been tested and conforms to the strict regulations and standards set out in the European market for customer safety. The mat also conforms to the IEE wiring regulations.

Is it safe to install in the bathroom?

Yes, providing that you install the product correctly as per the instructions. All electrical products in the bathroom or kitchen must be installed through a Residual Current Device (RCD) and to the necessary standards. The mat also conforms to the IEE wiring regulations. All thermostats should be installed outside the bathroom.

Is there a guarantee?

There is a 10 year guarantee on the mat and 2 year on the thermostat. The necessary form must be filled in and sent to us, which can be found in the respective product box.

Can Heatwave under tile heating be used in a wet-room?

Yes. Heatwave UTH can be used in conjunction with Homelux Waterproof Matting when building a wetroom. It is recommended that the Heatwave is fitted above the waterproof layer.

Will the floor get too hot?

No, the temperature of the floor can be accurately controlled with any Heatwave thermostat, so the floor is always at the temperature that is most comfortable for you.

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Will I be wasting lots of energy?

If you install our LCD programmable thermostat you can customize your system to turn on and off to meet your schedule, so the floor is not heated when you are not there! Install the Heatwave Insulation Board under the heat mat to reduce heat up times and increase efficiency further, saving energy and ultimately money.

Will there be any noise when it is on?

No, unlike the annoying knocking noises you hear from some radiators, the Heatwave system is completely silent.

What type of thermostat do I need, the LCD or the manual?

The manual is a simple to use accurate thermostat, which you can simply turn on and off when you like. The LCD thermostat is also simple to use but has programmable settings which means you don't even have to think about it once it has been set; it will come on and turn off when you set it to and heat your floor to the desired temperature at different times of the day.

What does the Heatwave Insulation Board do, is it really necessary?

The Homelux Insulation Board increases the Heatwave system efficiency by up to 50%, as the heat emitted from the mat is reflected upwards towards the tiles and is not lost downwards through the floor. It is highly recommended to install the insulation board on top of your wooden or concrete substrate. The board is not a substitute, however, for structural reinforcement. The floor must be completely secure and structurally sound before installing the Heatwave Insulation Board and under tile heating system.

Is the fibreglass mesh on the mat safe to handle?

Fibreglass can be itchy on the skin so you should always wear protective gloves when handling the mat or insulation board tape.

What size heat mat do I need to purchase?

Heatwave Heat Mats are supplied in 2, 3, 4 and 5m² (packed as 4, 6, 8 and 10 x 0.5m Linear – E.g. 2m² mat will be packed 4m x 0.5m). You need to purchase the size which will only cover the open floor area (not including fixed units, bath, toilets etc.) Always round down on size if in doubt.

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What type of tile adhesive do I need?

You should always use a tile adhesive that is suitable for use with the sub-straigh and under tile heating, e.g. a highly polymer modified powder based adhesive, which states it is suitable for under floor heating. This should also be used to install the insulation board.

Installation

I am laying a new floor and want under tile heating; at what point do I install it?

The Heatwave system should be installed on top of the finished substrate, i.e. when you are ready for tiling. Ensure the system is above the damp proof course in accordance with current Building Regulations.

Can I install the heat mat on top of a chipboard floor?

The heat mat can be installed onto a wooden floor subject to the tile adhesive being suitable for use on that particular type of wood. A WBP plywood overlay may be required. The floor should be sound and flat enough to tile onto before installing the heat mat.

The heat mat is in a roll, how many can I make it fit my floor space?

The heat mat can be rotated and reshaped as detailed in the diagram below, but remember **DO NOT CUT THE RED HEATING WIRE** – if a short length of heating wire is left over and there is room, this can be removed from the backing and laid around the edge of the room, ensuring that there is a space between all heating wires of a minimum of 60mm.

Do I need a Residual Current Device (RCD)?

Yes, and RCD of 30mA should be used with the system but consult a fully qualified electrician for advice.

At what point do I get a fully qualified electrician to connect the system?

After positioning the heat mat and thermostat, make sure you are satisfied that the area is covered correctly with no overlaps and not laid where objects will be fixed above the tiles (e.g. bath, toilet, kitchen units and appliances). The qualified electrician should then fully connect up the system to the RCD and mains supply and test that it is operating properly and the heat mat is heating up correctly/evenly. This also includes the resistance test of the heat mat and sensor with a multi-meter. If there is any malfunction with the system at this point, phone the helpline for technical support, or return the items to the point of purchase for exchange. If the system is working

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correctly, the qualified electrician should fill out and sign the warranty forms for both the heat mat and thermostat.

Why do I need to test the mat before I install the floor tiles?

The system should be tested to ensure there are no faults or damage before tiling as this is required for the warranty and will demonstrate the system is in perfect working order before you tile. An electrician should test the mat with a multi-meter and the system should be run for 10 minutes to ensure the wire heats evenly.

If I have more than one mat are they connected in series or parallel?

Parallel, through a junction box. All connections should be done by a fully qualified electrician to IEE wiring regulations.

How many mats can I control from one thermostat?

The maximum load of the thermostat is 3500W and the power of the mat per square metre is 150W. Therefore 3500W divided by 150W = 23.3 metres of matting per thermostat.

Can I overlap the red cables of the mat if it is too long?

The heating cable must never be overlapped as it can over heat and melt the wire insulation causing a short circuit. The wires must be at least 60mm apart.

Can I shorten the mat?

The heating wire must **NEVER** be cut. The mesh itself can be trimmed and cut to manipulate the mat to fit your floor area but be careful not to cut the wire as this will stop your mat from working and void your warranty. Note: when manipulating the mat please ensure that the heat wires are kept approximately 75-80mm apart and no closer than 60mm apart.

Can the temperature sensor cable be extended?

The sensor cable can be easily extended with a length of standard copper cable. The sensor wires measure at 0.5mm, so any extensions to this cable should be this size or above. The maximum size for the connections to the LCD thermostat is 2.5mm.

Where does the floor sensor go?

The floor sensor should be positioned equally between two of the red heat cables and 350mm into the heated area. A protective tube is supplied with the mat which should be set into a groove in the

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floor to cover the sensor from the tile adhesive, making sure that the end of the tube is sealed with tape to prevent adhesive penetration. Making sure the chosen area for the sensor is away from hot water pipes but close to the thermostat for easy connection.

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