

# QUICK HEAT

## INSTALLATION GUIDE



CLICK & PLUG

QuickHeat is an underfloor heating system designed for laminate and parquet flooring in dry areas. The product should not be incorporated or be placed under wall to wall carpeting or other 'not' pressure-proof products.

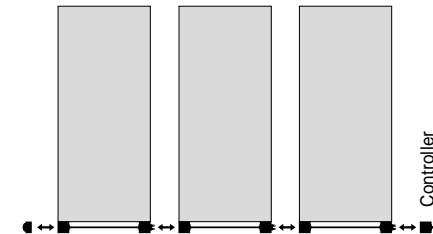
### Important information before installation

- » Read this installation manual carefully it contains important information regarding the safe use and installation of your QuickHeat system. Please read through the entire manual carefully before you install or use the product. Watch the installation video on our website.
- » Maximum area for a controller is 50 m<sup>2</sup>.
- » When the QuickHeat foil is cut, the end must always be sealed with electrical tape which comes in the QuickHeat controller kit box.
- » Never plug in the controller until all connections are made (see page 4 – 6).
- » QuickHeat is for use with 220 – 240V alternating current (AC).
- » Don't place thermal blocks onto your finished floor covering above your heaters when they are in use. Such items include large bean bags, thick rugs or floor flush furniture.
- » After the floor is installed, it must never be drilled, screwed, nailed or later installed permanently dividing walls or fixtures that covers the floor.
- » Test the installation before laminate / parquet is laid. Turn the controller on and then place a pillow or similar over the temperature indicator for approx. 15 minutes. Remove the pillow and check if the temperature indicator shows a higher temperature.
- » Max power load on a 10 A fuse is 2300 W and 16 A is 3600 W. When calculating the output available for the QuickHeat system, you should take all your electrical appliances on this fuse into consideration. If in doubt about which fuse covers the particular floor area, you can simply turn it off and see what appliances that are not working.
- » QuickHeat underfloor heating 60W/m<sup>2</sup> is intended for some comfort heating and not as the main heat source. For good insulated houses or NZEB it's possible to be used as the main heat source. Please check the output of your room first. To achieve the desired comfort heating in the floor, the room's temperature should be 20 °C or above.

### Before starting

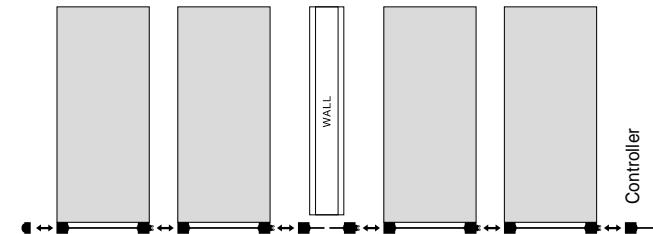
Draw an installation plan showing the placement of the mats, floor sensor and controller or consult our planner tool online. Note! Max. 50 m<sup>2</sup> of heating film per controller.

Example 1



Example 2

Use an extra extension cable when there is a wall in between.

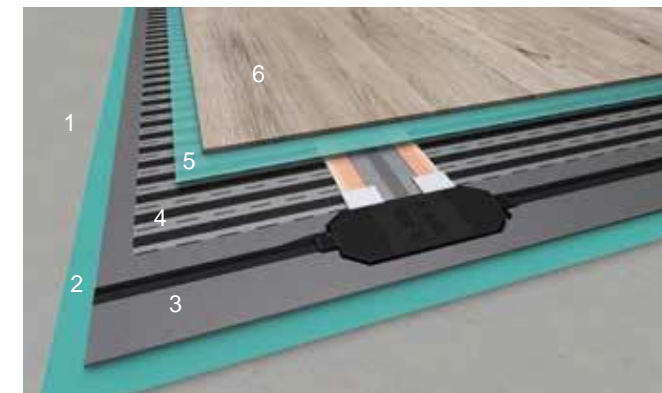


### You need the following before starting the installation

Vapour barrier on the subfloor as well as on top of the QuickHeat foil, 50 mm duct tape, knife, scissors and a screw driver.

### Installation

1. Subfloor
2. Vapour barrier, (PE film)
3. QuickHeat insulation plates
4. QuickHeat foil
5. Vapour barrier, (PE film)
6. Laminate or parquet





» 1

Remove all sharp objects and clean the floor so that the floor is free from all rubbish and dust. The floor must be level.



» 2

Cover the entire floor with a vapour barrier, PE film.



» 3

Cover the entire floor with 7mm QuickHeat insulation plates. Tape the plates together. Use 2 strips of tape on the connection side.



» 4

Roll out the QuickHeat foils according to your floor plan. Start about 5 cm from the wall.



» 5

If the QuickHeat foil is too long, the extra length can be cut off. Cut the film with scissors along the dotted line with a scissors symbol. Do not cut in the black areas.



» 6

After the QuickHeat foil is cut, both copper strips **MUST** be isolated by the insulation tape enclosed in the package.



» 7

Connect each female and male connector together side by side firmly. There should be no gap between the connectors.



» 8

Draw the shape of the connectors on the QuickHeat insulation plate and cut so that the connectors and cables can sit flat. Tape over the connectors so that they remain in place.



» 9

Use an extension cable to connect 2 heating foils or the heating foil and controller when it is necessary.



» 10

Install the floor sensor between the heating foils. Simply press the floor sensor into the insulation board so that it sits flat and stable. The sensor should not be in direct contact of the sub-floor.




» 11

Connect the connector of the last heating foil to the controller and plug in the controller. Press the Power button (K) and set the values according to the Quick-Heat controller kit instruction.



» 12

RCD test: the controller must be in heatingmode with the heating symbol on .

Push the 'Test' button to test if the RCD is working.



» 13

Function test: This test is to find out if the heat is generated in the films. Under this test, the controller must be in constant heating mode with the heating symbol on. Put a pillow or other insulator over the heating film. Leave on for about 15 minutes.



Checking by hand. Put your hand between the film and the pillow, you should be able to feel it's warm. Repeat this procedure for all the heating films.

Or:

Checking by floor sensor. Place the floor sensor directly under the heating film and check if the temperature showed on controller rises significantly.

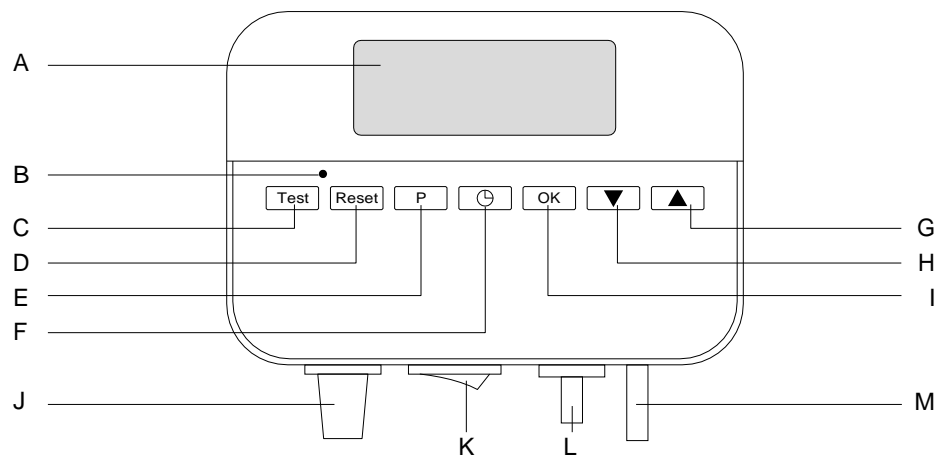


## QuickHeat wireless controller, with built-in safety switch

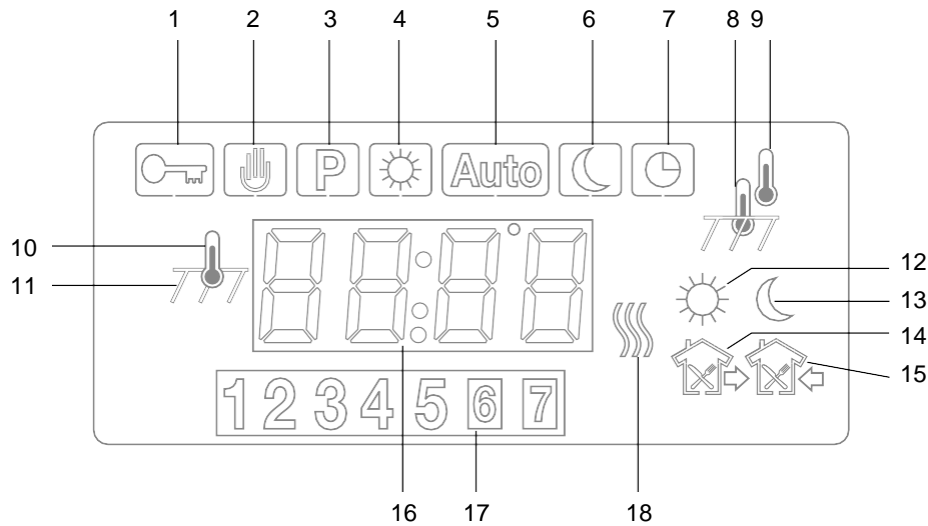
The controller is specially designed for QuickHeat floor heating system with floor temperature limitation. The controller has integrated safety switch (RCD) to meet the strictest safety requirement. When ground fault occurs, RCD will completely shut down the floor heating system. The plug & play controller features a built-in floor sensor and power plug to make it extremely simple to install.

## Safety advices

- » Always disconnect power supply before installing, dislocating, cleaning or servicing this controller.
- » Read all information stated in this manual before installing the controller.
- » Use the controller only as described in this manual.
- » All repair work should be carried out by an authorized electrician.
- » Never replace any parts of the controller unless it is carried out by an authorized electrician.



- |                          |                |                    |
|--------------------------|----------------|--------------------|
| A Display                | F Clock button | K Power button     |
| B Red light for RCD test | G Up button    | L Connection cable |
| C RCD test button        | H Down button  | M Floor sensor     |
| D Reset (RCD) button     | I OK button    |                    |
| E Program button         | J Power cord   |                    |



- |                      |                      |                         |
|----------------------|----------------------|-------------------------|
| 1 Child lock         | 7 Clock              | 13 Night time indicator |
| 2 Constant mode      | 8 Floor sensor       | 14 Out                  |
| 3 Program setting    | 9 Room sensor        | 15 Home                 |
| 4 Night setback mode | 10 Room sensor mode  | 16 Time / temperature   |
| 5 Week program mode  | 11 Floor sensor mode | 17 Day of the week      |
| 6 Night              | 12 Daytime indicator | 18 Heating on           |

## Installing the controller

- » Locate the right position where the controller will be placed. Make sure that the power cord and connection cable with connector is long enough to the connecting point.
- » Use the two mounting screws (included in the Controller kit) to mount the base plate to the wall. Place a level on top of the controller, adjust until level, and then tighten screws.
- » Fix the controller on the base plate by inserting to the grooves and sliding it down.

## Plug & play

- 1 Plug power cord in socket.
- 2 Switch on the controller by pressing on the Power button (K).
- 3 Set time and press 'OK' button.
- 4 Set day and press 'OK' button.
- 5 Check the RCD (read more on page 10).
- 6 Controller is in operation under Comfort mode.

## Programs

- » Comfort mode: Controller will be on all the time. (Factory setting.)
- » Non-program mode with night setback. Factory setting: 6:00: 27 °C and 23:00: 16 °C. Sun symbol shows when it's under non-program mode.
- » Program mode:
  - 1 Press 'OK' button to shift from non-program mode to program mode. Auto symbol shows on display. Factory setting: 7 days – 4 periods / day: 06:00 – 09:00: 27 °C, 09:00 – 15:00: 16 °C, 15:00 - 23:00: 27 °C and 23:00 – 06:00: 16 °C.
  - 2 Short press on 'P' button to come into program menu.
  - 3 06:00 flashes (press ▲ & ▼ button to adjust to desired time).
  - 4 Short press 'P' button to shift to next setting.
  - 5 09:00 flashes (press ▲ & ▼ button to adjust to desire time).
  - 6 Short press 'P' button to shift to next setting.
  - 7 Follow the above steps to finish setting of all periods.
  - 8 Press 'OK' button to revert to program operation when all period settings are finished.

## Child lock

Press Clock button for 5 seconds to activate or deactivate child lock.

Reset to factory setting: Press in 'P' & 'OK' button at the same time for 5 seconds, ('P' shows in display) 'DEF' shows and blinks 3 times. The controller returns to factory setting.

## Checking RCD

It is important that RCD should be checked for a proper installation and function of the system. Testing can only be performed when the thermostat is under heating mode.

Check the RCD as following steps:

- 1 Press the 'Test' button.
- 2 The test is conclusive if the red light is on and 'Gnd' shows and blinks on display. If this does not occur, check the installation.
- 3 Press 'Reset' button to reset the RCD. The red light should disappear, and the display will return to normal.

Note: RCD test should be carried out monthly.

If the RCD trips in normal operation without pressing 'Test' button, there could be a ground fault ('Gnd' shows on display). To check whether it is a ground fault or a nuisance tripping, press 'Reset'. If red light goes off and does not turn on again after pressing 'Reset', it was a nuisance tripping and the system is functioning. If RCD fails to reset, contact your supplier or an authorized electrician.

## Do's and Don'ts

- » Do thoroughly read this guide before commencing installation.
- » Do space the QuickHeat foils evenly across the floor to produce a uniform heat output.
- » Do ensure your floor base has no sharp debris or objects such as nail heads protruding before beginning your installation.
- » Do install the QuickHeat system beneath floating laminate and parquet flooring.
- » Do ensure there is a gap of at least 2 cm between each run of heating foil.
- » Do test your QuickHeat system before, and after covering with the final floor covering.
- » Do connect multiple heating foils in parallel and either to the end of a mat. Max. 50 m<sup>2</sup>.

- » Do plan where to place your QuickHeat foils before commencing installation.
- » Do cover the entire subfloor floor with vapour barrier, PE film. Also cover heating foils with vapour barrier before final flooring installation. (See page 3.)
- » Do install 7 mm QuickHeat insulating boards on your sub-floor before installing the QuickHeat foils.
- » Do use a QuickHeat thermostat to control your system and limit the floor temperature.
- » Do place our QuickHeat insulation plates beneath the heating system, not on top.
- » Do ensure the system is protected by a suitable dedicated RCD (30 mA). This is built in the QuickHeat controller.
- » Don't cut, shorten, strain or cross the width of the heating foils.
- » Don't turn on the system until installation is finished.
- » Don't turn on the system to maximum power once the floor covering is down, you should increase the temperature of the system slowly over a course of 2 days.
- » Don't lay the system so that any mats overlay each other.
- » Don't place heating foils closer than 10 cm away from conductive items such as walls, metal pipework or drains.
- » Don't install the system beneath floor coverings with a thickness greater than 18 mm.
- » Don't install the system directly beneath wooden floor coverings that have to be glued, screwed in place or mechanically fixed into position in any way.
- » Don't walk unnecessarily on the heating system during installation.
- » Don't place thermal blocks onto your finished floor covering above your heating foils when they are in use. Such items include large bean bags, thick rugs or floor flush furniture.
- » Don't install the system if the ambient temperature is below 5 °C as the mats can become less flexible.
- » Don't install the heating foils in walls or ceilings.
- » Don't install the heating foils where internal walls or partitions will be added later.
- » Don't install the floor temperature sensor close to other heat sources such as hot water pipes.
- » Don't place heavy or sharp tools on the heating mats that can damage the heating mats.

## Warranty

Unilin BV warrants this product, to be free from defects in the workmanship or materials, under normal use and service, for a period of 25 years for heating foils and extension cable, 2 years for controller, from the date of purchase by the consumer. This warranty applies only to the first owner and the first installation of the product and is not transferable. The person deemed to be the first owner is the person stated as the buyer on the purchase invoice. If at any time during the warranty period the product is determined to be defective, Unilin shall repair or replace it, at Unilin's option. This warranty does not cover removal or reinstallation costs, and shall not apply if it is shown by Unilin that the defect or malfunction was caused by incorrect installation or damage which occurred while the product was in the possession of a consumer. Unilin's sole responsibility shall be to repair or replace the product within the terms stated above. Unilin shall not be liable for any loss or damage of any kind, including any incidental or consequential damages.

## Check list for control before installing the flooring

- » Test if each foil is heating.
- » Check the RCD.
- » Check and ensure that the QuickHeat system is not damaged under installation process.
- » Take pictures of the heating system and all connections.  
Keep these and the floor plan as documentation with the warranty form.

