



Warmup[®]

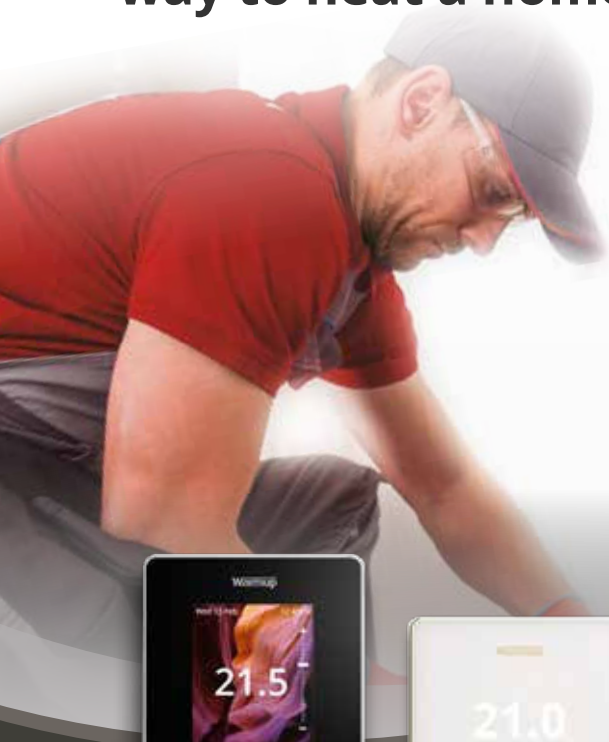
The world's **best-selling** floor heating brand™

Water Floor
Heating

Electric Floor
Heating

Smart
Controls

The most energy efficient way to heat a home



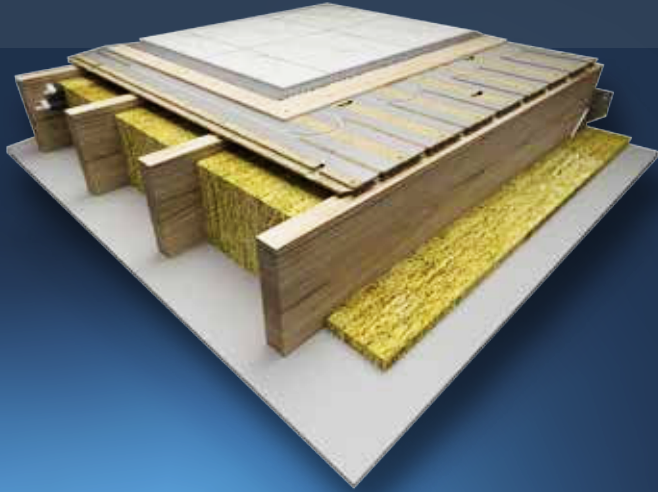
NEW 6iE™
WiFi Thermostat
Page 64



NEW Element™
WiFi Thermostat
Page 68

Introducing VLo Econna-12

Joisted Floor System



NEW LAUNCH

**New
Features!**

No screeding required

Built-in diffusion layer for even heat distribution

One universal panel type – allows for a rapid installation



Introducing VLo Nexxa-12

Concrete and Timber System



NEW LAUNCH

**New
Features!**

Fast installation times

Low surface finish – just 22mm

Self-adhesive backing for easy installation



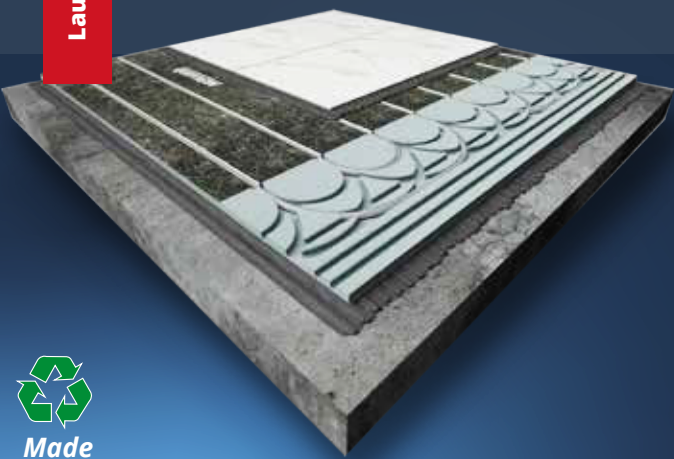
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VLo Econna-12 Joisted Floor System on Page 108



More Information About Warmup
VLo Nexxa-12 Castellated System on Page 92

Launching October 2022

Introducing **VLo Ultra-12** Concrete and Timber System



Made
with
Recycled
Materials

**New
Features!**

Low build-up - just 18mm

Market leading heat output for any given
water temperature

Recycled fleece decoupling layer



New Water Systems Advisory Centre

Opening Early
September 2022

- ✓ Get expert advice on your project
- ✓ Grab a coffee and chat to our advisers
- ✓ Systems stocked on site for click and collect

Get your
quote today!

Use our online tool for
instant water system
quotes for single or
multiple rooms



More Information About Warmup
VLo Ultra-12 Joisted Floor System on Page 94



£149.46
Excl. 20% VAT

6iE™

WiFi Thermostat

The smartest, most efficient way to control
the world's best selling floor heating



Benefits

1. Automated control of your heating
2. Reduces energy use by up to 25%
3. Reduce energy bills by over £400

£112.12
Excl. 20% VAT

Element™

WiFi Thermostat

Energy-efficient heating control designed
with simplicity and stylish functionality



Benefits

4. Beautiful discreet design
5. Small, simple and easy to use
6. Data Security you can trust



More Information About Warmup
6iE™ WiFi Thermostat on Page 64

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6iE™ WiFi Thermostat

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About Warmup®

Warmup® is a certified ISO 9001:2015 UK based manufacturing Plc creating and delivering electric, water and hybrid underfloor heating solutions with the world's leading smart controls. Our vision is to change the way people heat their homes so that they live in the most comfortable, efficient and sustainable environments.

With **more than 2.5 million systems installed in 72 countries**, Warmup is the world's best-selling floor heating brand.

We are a British-based research driven company, focusing on developing innovative heating solutions that bring energy-efficient warmth to our customers' lives. **Warmup won the Queen's Award for Enterprise for International Trade, 2020.**

The combination of Warmup's heating wire with fluoropolymer coatings (on the inner wires and the outer protective jacket) our Element™, 6iE™, and Tempo™ Thermostats are patented, trademark protected, designed and owned by Warmup®.



Warmup® has a tradition for quality and innovation. **Warmup is the only underfloor heating company whose products are European compliant, CE marked and accredited by more independent institutions than anyone else in the industry.**



See how Warmup have transformed the home of the late Sir Stirling Moss OBE

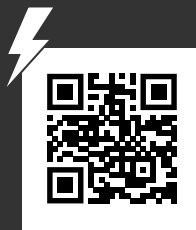
Our Services

Unique Online "Quick Quote" Service

Warmup's quoting tools are designed to give you a precise quote with the right product, price and sizing for your project, in less than a minute. Should you require a more detailed quotation, you can submit your drawings or plans to www.warmup.co.uk

24 / 7 / 365 Technical Helpline

We are the **only underfloor heating company** who offers a technical helpline **24 / 7 / 365**. If you have a question or an installation problem, our experienced Technical Team are available to support you - call **0345 345 2288**. We also offer online 'live' chat and a host of installation tutorials - www.warmup.co.uk



Electric
Quick Quote



Water
Quick Quote



See how Warmup have transformed the home of Snooker World Champion and World Number 1 Mark Selby

Repair Kits

Minor damage (i.e. nicking the wire with a trowel), discovered before the floor is laid, can easily be repaired on-site. Call **0345 345 2288** to obtain an easy-to-fit repair kit, via next-day delivery (or keep a few extra available). To get an accurate idea of typical of a Warmup System, see the table below.

Running Cost Information - Electric

	2m ²	4m ²	5m ²	10m ²	15m ²	25m ²
1 hrs	2 p	4 p	5 p	10 p	15 p	25 p
2 hrs	3 p	6 p	8 p	15 p	23 p	38 p
3 hrs	4 p	8 p	10 p	21 p	31 p	51 p
4 hrs	5 p	10 p	13 p	26 p	39 p	65 p
5 hrs	6 p	12 p	16 p	31 p	47 p	78 p
6 hrs	7 p	15 p	18 p	37 p	55 p	91 p
7 hrs	8 p	17 p	21 p	42 p	63 p	105 p
8 hrs	9 p	19 p	24 p	47 p	71 p	118 p

Financial figures in UK pence based on 2022 tariffs

Calculated running costs for a typical Living Room meeting Part L 2002 building regulations. Electricity cost 28.34 p/kWh sent our systems to work.

Notice: Any unauthorised replication of this material, including running cost data, will constitute an infringement of copyright.

Rapid Delivery

Pick up immediately from approved stockists nationwide or order for delivery from any of our resellers in the UK. We take orders up to 1630hrs from most resellers for next day delivery to England and Wales. Certain parts of Scotland and the Channel Islands can take 2 –3 days.

Warmup® Service Engineers

Warmup is the only underfloor heating brand to provide this service. Should your customer’s heating system become damaged after installation, we offer a team of experienced service engineers, who will identify and correct the damage. Call Warmup on **0345 345 2288** to arrange an appointment.

Quotation and Layout Service

Warmup can provide CAD layouts and full designs to ensure you get the optimal solution for your project. All you need to do is fax your drawing to **0345 345 2299**, email **uk@warmup.com** or visit our quotation facility and Warmup will do the rest.



Pro Installer Programme

Join Warmup Pro today to become a Warmup Pro Installer.

All you need to do is:

Sign up to Warmup Pro, complete Level 1 training (online based), attend one of our Level 2 Installation training sessions.

Verified Warmup Pro Installers get access to our quote referral programme & Super SafetyNet.

Sign up today at pro.warmup.co.uk

The Best Warranties, Installation Guarantee and Accreditations

Warmup® Loose Wire, StickyMat, DCM-PRO, Inscreed Cable & PEX-A & PE-RT Systems carry a **Lifetime Warranty** for greater peace of mind.

A **Lifetime Warranty** upgrade is available on the 6iE™ Smart WiFi Thermostat, Element™ WiFi Thermostat and Tempo™ Digital Programmable Thermostat.

Visit www.warmup.co.uk for details



If you accidentally damage the heating system during installation, return it to Warmup and we will replace it with another heater of the same make and model FREE!

Visit www.warmup.co.uk for details



Rest assured, you are installing the very best. **Warmup is the only underfloor heating company** "whose products are, CE & UKCA marked and accredited by all these independent institutions. In addition, we are members of BEAMA, CIBSE, RIBA, and TTA.



18th Edition Approved. All Warmup products comply with 18th Edition of the **IET Electrical Requirements BS7671**

Warmup's Unique Advantages



- Thinnest (1.8mm), Toughest (Fluoropolymer Coating) Easiest to lay wire
- BEAB & SGS FIMKO Approved
- Lifetime Warranty
- Unique Smart Thermostats
- 24/7/365 Technical Helpline
- Best Research Team
- Unique DCM Pro Installation Method
- Warmup Pro installer programme



- Lifetime Warranty on Pex-A pipe
- Best in Class Manifold
- Unique low build up (16mm) Total 16 Solution
- New Konekt Smart Controls for water UFH, Central Heating and wifi connected TRV's
- UK network of engineers to visit site
- Pro Hydro quote tool - automated flowrate commissioning



System Summary Guide

Whatever the floor finish or subfloor construction, Warmup has the right underfloor heating solution to match your specific needs. Use the table below to find out which products best suit your floor type. Contact us on **0345 345 2288** should you require further information.

	Warmup Electric Products						Warmup Water Products
	*DCM-PRO	*Loose Wire	*Sticky Mat 150 W/m²	*Sticky Mat 200 W/m²	Inscreed Cable	Foil Heater	
Page No.	22	32	28	28	36	40	86
Tile & Stone	✓	✓	✓	✓	✓	✓	✓
Hardwood	✓	✓	✓	✓	✓	✓	✓
Laminate	✓	✓	✓	✓	✓	✓	✓
Carpet	✓	✓	✓	✓	✓	✓	✓
Vinyl	✓	✓	✓	✓	✓	✓	✓

* Compatible with Hardwood, Laminate, Carpet, Vinyl only when covered with a minimum of 10mm self levelling compound.



Warmup is fully tested and compatible for use with wood floors and vinyl including leading brands like:



WARMUP NEW SMART WIFI THERMOSTATS



FIND OUT MORE PAGE 62



World Leading Research & Development

By continually investing in research and development, Warmup® is able to foresee and respond to upcoming industry trends and technological developments. This guarantees you fast access to the latest innovations when it comes to underfloor heating design, energy efficiency and reducing CO² emissions.

Warmup® Monitored Family Homes Programme

In support of our **EN442-2 Research Centre** in Germany, we operate a number of Family Monitored Houses in addition to the BRE (Building Research Establishment) Dementia House.

This initiative grew out of the need to better predict the future energy running costs of houses using Warmup underfloor heating systems. Information is gathered every few minutes from many tiny sensors.

These sensors are strategically placed in each zone to compare floor, wire/water and outside temperatures and often other readings like humidity and radiant temperature. This allows a detailed view of the amount of energy actually needed to create ideal living conditions.

This can be compared with test facility results and in particular, what may have been predicted by SAP (Standard Assessment Procedure) calculations, which are central to the perceived energy performance and efficiency of a dwelling.

This information allows us to answer questions from ‘How much will it cost to run Warmup in my new house?’ to ‘How much will I save using Warmup underfloor heating rather than radiators in my home?’ and ‘How much CO² will I save?’

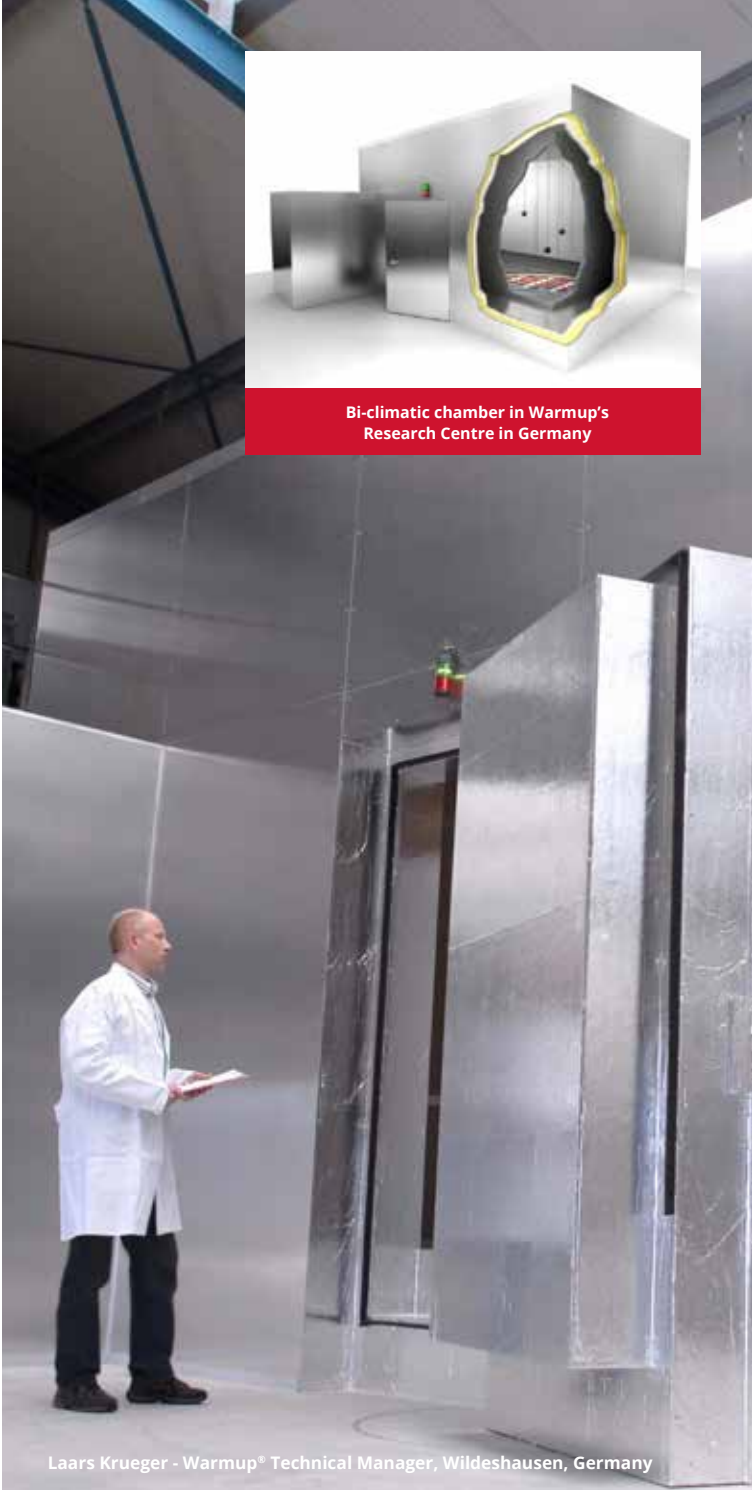
How much does underfloor heating cost to heat my room?

RUNNING TIME				
ROOM TYPE	HEATED AREA	AM	PM	ANNUAL COST*
Bathroom	6.0 m ²	2 hrs	1 hr	£32.55
Kitchen	10.5 m ²	1 hr	2 hrs	£36.52
Lounge	17.5 m ²	0 hrs	3 hrs	£62.16

Estimated UK Energy price of 28.34p/kWh,
using heating system for 6 months (182 days) per year.



Bi-climatic chamber in Warmup's Research Centre in Germany



Laars Krueger - Warmup® Technical Manager, Wildeshausen, Germany

Benefits of Underfloor Heating

Floor heating is simply the only way to create the ideal environment in a family room to balance floor and air temperature.

Suitable for every type of project - new-build, refurbishments and renovations.

Appropriate for use under a wide range of floor finishes - stone, tile, wood, laminate, engineered wood, carpet, and vinyl.

Warmup is also fully tested and compatible for use with Karndean and Amtico.

With its low operating temperature, warmth is evenly spread across the whole floor area, with no cold spots, heating from the floor upwards without creating a stuffy atmosphere.

Temperature control in each zone - our comprehensive range of thermostats, including the 6iE® Smart WiFi Thermostat, and The Element Thermostat allow the homeowner to choose the temperature levels they require, to effortlessly control their heating with optimised schedules and temperatures through smart learning features to accommodate their lifestyle.

Cost savings - because underfloor heating uses a lower temperature than standard radiators, heating costs are reduced and savings can be achieved by at least 10% on utility bills.

Design freedom - underfloor heating means no bulky radiators to take up valuable wall and floor space.

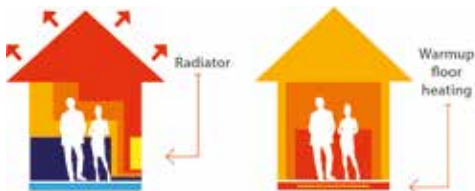
Safety - delivers a family-friendly and safe environment. No low level hot surfaces or hard metal edges that come with a traditional heating system, creating a potentially unsafe and dangerous environment for small children, the elderly or people at risk.



Energy efficiency - underfloor heating gives the homeowner control, provides rapid heat-up and high efficiency heating. It requires significantly less energy as you are not heating the ceiling area and it enables the temperature to be accurately controlled as needed, allowing end users to heat the room(s) they want, with less energy wasted compared to traditional heating systems.

No maintenance - there is no maintenance required for underfloor heating and little or no maintenance required on our water systems.

Water underfloor heating can be linked to most heat sources, giving total flexibility - allowing for best energy savings as new energy efficient heat generators become available, now and in the future.





4 Easy Steps to Calculate your Underfloor Heating Requirements for Electric Systems



To calculate the underfloor heating system(s) you require for your room(s), you need to determine the working floor space available to you. This is the total amount of floor space less the area taken up by any fixed objects, i.e. kitchen units, bath etc. You only need to heat the area you will be walking on.

We would recommend to heat around 80 – 90% of your floor space because you will need to leave a gap between the walls and the area where you intend to install the heating system.

Step 1

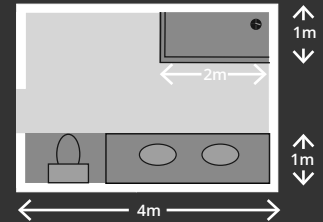
Measure your room dimensions



Work out the total floor area. If the overall room is rectangle in shape, say 4m by 3m – all you need to do is multiply both numbers – which gives you 12 sqm.

Step 2

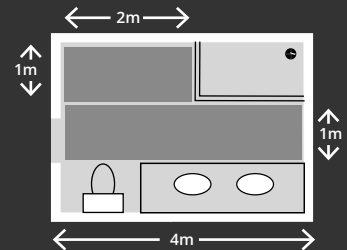
Disregard any area taken up by fixed object



Work out how much of the floor space is taken up by fixed objects, i.e., in your kitchen – For example here you will need to remove 6sqm. Kitchen unit = 4m x 1m = 4 sqm and the fridge = 2m x 1m = 2sqm. So 4sqm + 2sqm = 6sqm.

Step 3

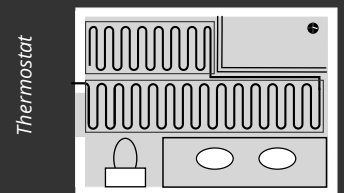
Determine the floor area to be heated



Take your total floor area and remove the area taken by your fixed objects. Example = 12sqm - 6sqm = 6sqm.

Step 4

Select the heating system of choice



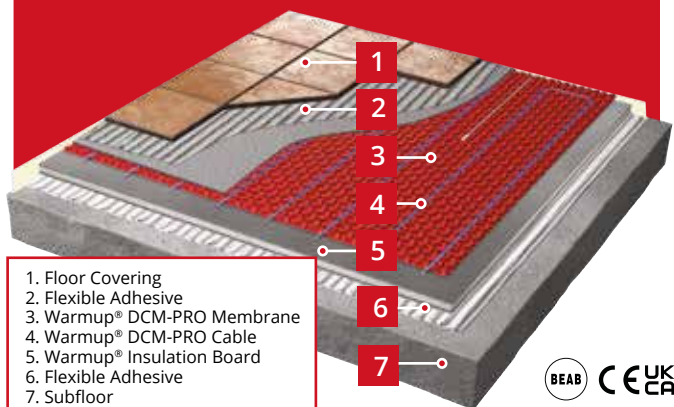
You will want to play it safe and remove a certain % off your heated area to avoid having excess cable.

From 1m² to 10m² heated area, remove 10%. From 11m² to 20m², remove 7.5%. From 21m² upwards of heated area, remove 5%.



Warmup® DCM-PRO

The DCM-PRO is the fastest way to install a heated decoupling system in all areas; in fact 40% faster than standard underfloor heating membranes. The patent pending self-adhesive underside acts as a self-healing decoupling layer and eliminates the need for an adhesive layer, reducing both time and costs.



1. Floor Covering
2. Flexible Adhesive
3. Warmup® DCM-PRO Membrane
4. Warmup® DCM-PRO Cable
5. Warmup® Insulation Board
6. Flexible Adhesive
7. Subfloor



Technical Data Mat

Thickness: 5.5mm

Composition: POLYPROPYLENE MEMBRANE

Spacing: 60/90/120mm

Technical Data Cable

Operating voltage: 220-240v:50Hz

Cable thickness: 4.5mm

Average output rating:
150 W/m² (3 Castellations - 90mm)

Inner/Outer wire insulation: PVC

Single 3m long 'cold tail' connection lead

IP Rating: IPX7

Approvals: BEAB European Compliant & CE & UKCA Marked

Lifetime Warranty & SafetyNet™ Installation Guarantee



Frequently Asked Questions

Can the DCM-PRO system reduce the risk of my tiled floor developing cracks?

As a decoupling system, the DCM-PRO has been designed to absorb the normal lateral movement which occurs when the subfloor and finished floor expand and contract at different rates. This has been backed up with a 'High Performance' rating for crack isolation, as externally tested according to ANSI 118.12.5.4 (American National Standards Institute, www.ansi.org).

How does the DCM-PRO cable fit into the DCM-PRO mat?

The DCM-PRO cable clips into the castellations of the DCM-PRO mat. No tools are required when installing the cable into the mat. It is easily installed by running your thumb along the top of the cable to guide it into the castellations.

Do I need to use primer when installing the DCM-PRO system?

If the DCM-PRO is being laid directly onto a plywood or concrete subfloor, an SBR primer is required at a ratio of 1:4. If an insulated or standard tile backer board is being used, no primer is needed. We recommend you use Warmup insulation boards.

How quickly can I lay floor finish onto the DCM-PRO?

Straight away. One of the main advantages of the self-adhesive properties of the DCM-PRO is no waiting time. As soon as the mat is fitted, cable installed and cable resistance checked, tiling or self-levelling can be started.

Can the DCM-PRO system be used in a wet room?

Yes. With the addition of the DCM-PRO waterproofing tape installed following the recommended installation method, set out in the installation guide, the system is waterproof and can be used in a full wet room environment.

DCM-PRO Mat Price Guide

Product Code	Format	Length (m)	Width (m)	Area Covered (m²)	Price (Excl. 20% VAT)
DCM-M-1	Sheets	1.04	0.98	1	£20.62
DCM-M-15	Rolls	15.3	0.98	15	£295.96

DCM-PRO Cable Price Guide

Castellations	2	3	4
Output	225W/m²	150W/m²	112.5W/m²
Spacing	60mm	90mm*	120mm

Product Code	Area Covered (m²)	Area Covered (m²)	Area Covered (m²)	Price (Excl. 20% VAT)
DCM-C-1	0.7	1.0	1.3	£102.81
DCM-C-1.5	1.0	1.5	2.0	£112.38
DCM-C-2	1.3	2.0	2.7	£135.04
DCM-C-2.5	1.7	2.5	3.3	£152.47
DCM-C-3	2.0	3.0	4.0	£170.76
DCM-C-3.5	2.3	3.5	4.7	£192.54
DCM-C-4	2.7	4.0	5.3	£215.20
DCM-C-4.5	3.0	4.5	6.0	£237.84
DCM-C-5	3.3	5.0	6.7	£269.21
DCM-C-6	4.0	6.0	8.0	£296.22
DCM-C-7	4.7	7.0	9.3	£331.94
DCM-C-8	5.3	8.0	10.7	£367.66
DCM-C-9	6.0	9.0	12.0	£412.96
DCM-C-10	6.7	10.0	13.3	£461.75
DCM-C-12	8.0	12.0	16.0	£520.13
DCM-C-14	9.3	14.0	18.7	£592.45
DCM-C-16	10.7	16.0	21.3	£673.47

*Recommended spacing

DCM-PRO Accessories Price Guide

Product Code	Description	Length (varies)	Height (mm)	Width (mm)	Thickness (mm)	Price (Excl. 20% VAT)
DCM-E-25	Perimeter Strip	25m	-	30	10	£24.55
DCM-T-10	Waterproofing Tape	10m	-	120	1	£29.47
DCM-R-I	Internal Corner	120mm	60	120	1	£6.39
DCM-R-E	External Corner	120mm	60	120	1	£6.39

Protects Floor from Damage

Rated as high performance, the DCM-PRO is proven to protect tiled floors from cracking (ANSI 118.12.5.4).

Unlike traditional fabric-based decoupling layers which tear upon movement, the patent pending self-healing decoupling layer contracts and expands to deal with seasonal changes, preventing damage occurring from gaps and cracks in the subfloor.



Protects floor surface from damage caused by subfloor movement.



Patent pending adhesive layer slides and stretches with expansion.



Adhesive layer contracts and self-heals if gap shrinks due to seasonal changes (typical for wood subfloors).

Convenient Sizing

- 1m² of cable fits exactly 1m² of membrane at the recommended 90mm spacing
- Can be adjusted to increase or decrease coverage and power:
 - 225 Watts per m² - based on 2 castellations
 - 150 Watts per m² - based on 3 castellations (recommended)
 - 112.5 Watts per m² - based on 4 castellations

Installation Guide

(Refer to installation manual for complete instructions)

Make a floor plan of your floor area by measuring your room and then subtract any fixtures (such as baths and cupboards). Ensure you have the correct size mat for your floor area.

Laying the Matting System

Ensure the subfloor is smooth, dry and free from dust. Install perimeter strip around the perimeter of the room to allow for differential movement between finished floor level and walls. The surface must be SBR primed (1:4). Cut the mat to size, peel off backing and tack in place, only pressing down once aligned. Lay additional sheets ensuring that the castellations are aligned.

Connecting to the power supply

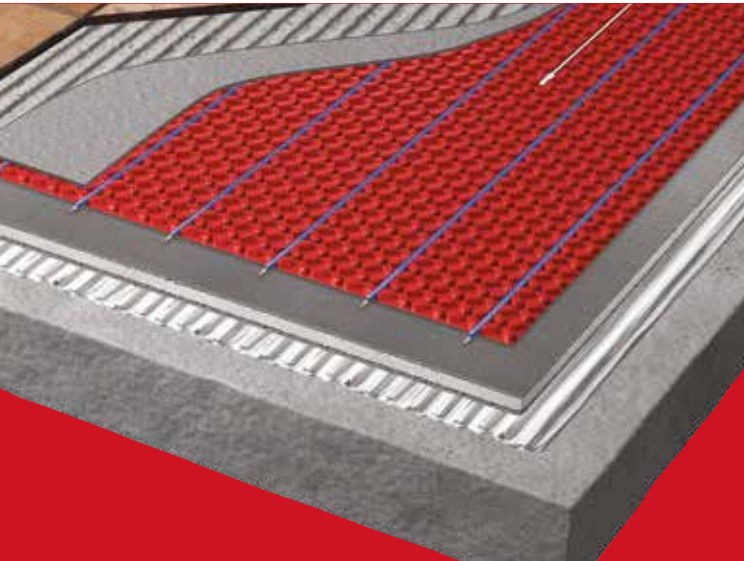
NOTE: All electrical connections must be performed by a certified electrician.

Make electrical provision for the heater (30mA RCD, 35mm deep electrical back boxes trunking).

Install the heating cable at the chosen spacing (minimum 60mm), maintaining a perimeter spacing of half the chosen cable spacing. Channel a groove in the mat and subfloor for the coldtail & termination joints, enabling them to fit flush with the top of the mat. Make sure all the connections have been made to the power supply and test the resistance of the heating cable to ensure no damage has occurred.

Completing the job

Lay the tiles or levelling compound over the system, using flexible grout for grouting.



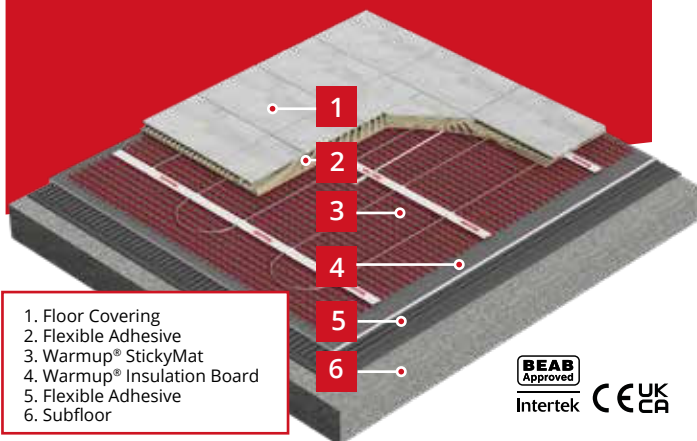
Installation video for Warmup® DCM-PRO
Always refer to the installation manual prior to commencing your project.





Warmup® 150 & 200W/m² StickyMat System

Warmup® StickyMat underfloor heating system is suitable for all projects; new-build, retrofits and refurbishments. The StickyMat System consists of a thin loose wire evenly spaced and taped to a glassfibre mesh with pressure sensitive adhesive, reducing installation time, for the fastest and most secure installation method of electric underfloor heating.



1. Floor Covering
2. Flexible Adhesive
3. Warmup® StickyMat
4. Warmup® Insulation Board
5. Flexible Adhesive
6. Subfloor



Intertek CE UK CA

Features	Technical Data
The thinnest dual-fluoropolymer coated heating wire (less than 1.8mm diameter)	Operating voltage: 230 V AC: 50H
StickyMat with pressure sensitive adhesive, for the fastest and most secure installation	Width: 500mm (0.5 metre)
Can be repositioned easily without losing adhesion	Mat thickness: 3mm
The pressure sensitive adhesive ensures that no wire or mesh is raised when tiling or covering with a self-levelling compound	Inner/Outer wire insulation: advanced fluoropolymer
	Output rating: 150 and 200W/m ²
	Single 3m long 'cold tail' connection lead
	Approvals: BEAB
	European compliant and CE & UKCA Marked
	Lifetime Warranty & SafetyNet™ Installation Guarantee

LIFETIME



SAFETYNet™
Installation-Guarantee

Price Guide

Price Guide for 150W/m² Underfloor Heating StickyMat

Area Heated	Product Code	Wattage	Amps	Price (Excl 20% VAT)
1m ²	SPM1	150W	0.65A	£103.73
1.5m ²	SPM1.5	225W	0.98A	£131.03
2m ²	SPM2	300W	1.30A	£149.24
2.5m ²	SPM2.5	375W	1.63A	£183.81
3m ²	SPM3	450W	1.96A	£212.93
3.5m ²	SPM3.5	525W	2.28A	£239.33
4m ²	SPM4	600W	2.61A	£264.80
4.5m ²	SPM4.5	675W	2.93A	£285.65
5m ²	SPM5	750W	3.26A	£315.99
6m ²	SPM6	900W	3.91A	£373.13
7m ²	SPM7	1050W	4.57A	£429.37
8m ²	SPM8	1200W	5.22A	£468.64
9m ²	SPM9	1350W	5.87A	£509.71
10m ²	SPM10	1500W	6.52A	£540.18
11m ²	SPM11	1650W	7.17A	£572.73
12m ²	SPM12	1800W	7.83A	£625.52
15m ²	SPM15	2250W	9.78A	£785.64

Price Guide for 200W/m² Underfloor Heating StickyMat

Area Heated	Product Code	Wattage	Amps	Price (Excl 20% VAT)
0.5m ²	2SPM0.5	100W	0.44A	£68.24
1m ²	2SPM1	200W	0.87A	£115.56
1.5m ²	2SPM1.5	300W	1.30A	£144.68
2m ²	2SPM2	400W	1.74A	£161.06
2.5m ²	2SPM2.5	500W	2.17A	£196.55
3m ²	2SPM3	600W	2.61A	£230.22
3.5m ²	2SPM3.5	700W	3.04A	£259.34
4m ²	2SPM4	800W	3.48A	£288.47
4.5m ²	2SPM4.5	900W	3.91A	£307.96
5m ²	2SPM5	1000W	4.35A	£339.21
6m ²	2SPM6	1200W	5.22A	£400.80
7m ²	2SPM7	1400W	6.09A	£463.28
8m ²	2SPM8	1600W	6.96A	£509.71
9m ²	2SPM9	1800W	7.83A	£548.09
10m ²	2SPM10	2000W	8.70A	£578.02
15m ²	2SPM15	3000W	13.05A	£844.59

Installation Guide

(Refer to installation manual for complete instructions)

Make a floor plan of your floor area by measuring your room and then subtract any fixtures (such as baths and cupboards). Ensure you have the correct size mat for your floor area.

Laying the Matting System

Roll out the mesh, wire face up. At the end of the run, cut the mat (**not the wire**), turn the mat through 90° or 180° and continue laying the mat. When the area is covered, adjust the mat until the loops are of equal distance apart. Affix the mat to the floor using its self-adhesive mesh, or using the double sided tape on the mat. Lay the temperature probe from the thermostat at equal distance between two of the cable loops and attach to the floor surface.

Connecting to the power supply

NOTE: All electrical connections must be performed by a certified electrician.

Install an RCD fused spur to power the thermostat and the matting system heating element network.

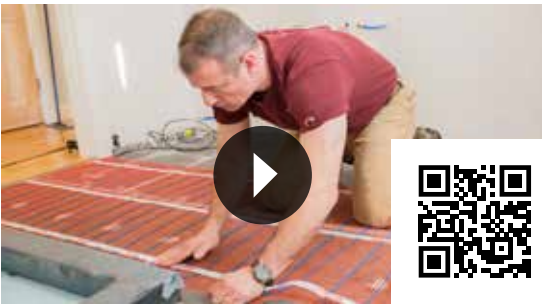
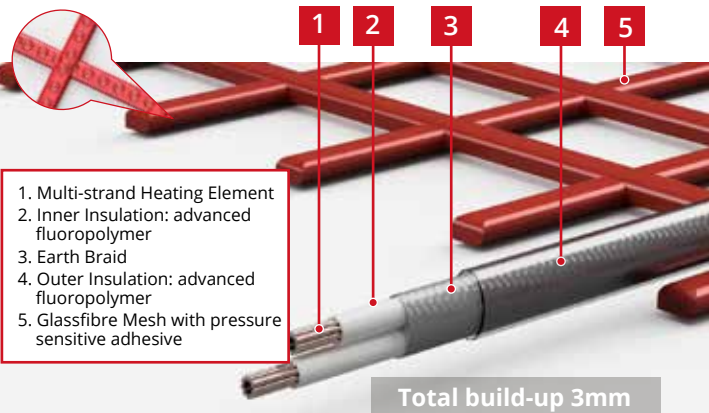
Take the unheated power supply cable from the end of the matting system, which should be positioned near the thermostat. Make sure all the connections have been made to the power supply. Turn the heater(s) on to ensure they are heating up (no more than 10 minutes).

Completing the job

Either lay a thin, self-levelling screed over the mat and leave it to dry before laying tiles or trowel a full bed of flexible tile adhesive directly over the mat and lay the floor tiles.

MAT: with pressure sensitive adhesive

- ✓ Fastest and most secure installation
- ✓ Use less self-levelling compound and tile adhesive
- ✓ Can be repositioned easily without losing adhesion



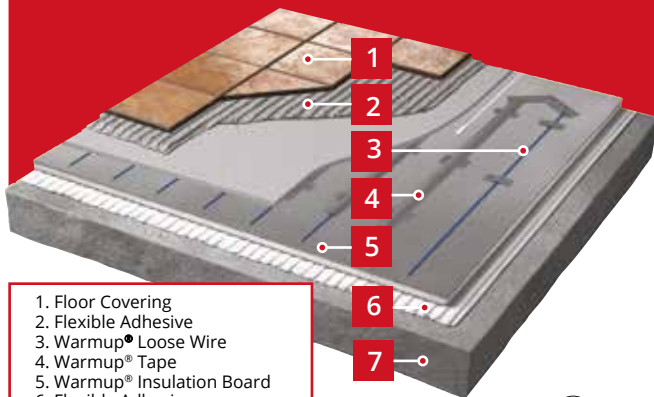
Installation video for Warmup® StickyMat System. Always refer to the installation manual prior to commencing your project.





Warmup® Loose Wire System

Warmup® Loose Wire System uses an ultra-thin dual-core heating wire that is flexible, easy to install and will not raise floor levels. Ideal for more irregular shaped areas for precise installation.



1. Floor Covering
2. Flexible Adhesive
3. Warmup® Loose Wire
4. Warmup® Tape
5. Warmup® Insulation Board
6. Flexible Adhesive
7. Subfloor



Features	Technical Data
Ultra-thin dual-core heating element will not raise floor levels	Operating voltage: 230 V AC: 50H
The thinnest dual-fluoropolymer coated heating wire (less than 1.8mm diameter)	Cable thickness: 1.8mm
BEAB approved heating element meets the highest safety standards	Average output rating: 150 W/m ²

Quick installation – Single connection lead for fewer steps

Inner/Outer wire insulation:
Advanced fluoropolymer

Single 3m long 'cold tail' connection lead

Approvals: BEAB

European compliant and CE & UKCA Marked

Lifetime Warranty & SafetyNet™ Installation Guarantee



Price Guide

Area Heated	Product Code	Wattage	Amps	Price (Excl. 20% VAT)
1.5 to 2.4m ²	DWS300	300W	1.30A	£128.89
2.5 to 3.4m ²	DWS400	400W	1.80A	£153.22
3.5 to 4.4m ²	DWS600	600W	2.61A	£224.42
4.5 to 5.9m ²	DWS800	800W	3.48A	£290.22
6.0 to 6.9m ²	DWS600 + DWS400	1000W	4.41A	£377.64
7.0 to 8.4m ²	2 x DWS600	1200W	5.22A	£448.84
8.5 to 9.9m ²	DWS800 + DWS600	1400W	6.09A	£514.64
10 to 11.4m ²	2 x DWS800	1600W	6.96A	£580.44
11.5 to 12.9m ²	DWS800 + DWS600 + DWS400	1800W	7.89A	£667.86
13.0 to 14.4m ²	2 x DWS800 + DWS400	2000W	8.76A	£733.66
14.5 to 15.9m ²	2 x DWS800 + DWS600	2200W	9.57A	£804.86
16.0 to 17.4m ²	3 x DWS800	2400W	10.43A	£870.66
17.5 to 18.9m ²	2 x DWS800 + DWS600 + DWS400	2600W	11.37A	£958.08
19.0 to 20.4m ²	3 x DWS800 + DWS400	2800W	12.24A	£1,023.88
20.5 to 21.9m ²	3 x DWS800 + DWS600	3000W	13.04A	£1,095.08
22.0 to 25m ²	4 x DWS800	3200W	13.91A	£1,160.88



Installation video for Warmup Loose Wire System.
Always refer to the installation manual prior to commencing your project.



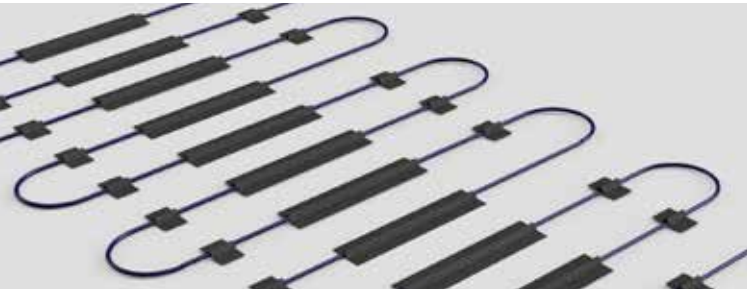
Installation Guide

(Refer to installation manual for complete instructions)

Ensure the subfloor is smooth, clean and dry. We recommend you install Warmup® Insulation Boards for energy efficiency, but if you do not, paint the floor with the Warmup primer and allow to dry. Mark the perimeter and heater spacings on the floor using the sizing guide at the back of the installation manual.

Laying the Loose Wire System

Tape the joint to the start point on the floor and lay out the wire in parallel lines with U-shape returns. Tape and secure the heating wire to the floor with the adhesive tape provided. Ensure an even coverage with a minimum of 50mm spacing. Once completed, tape down the entire length of the heating wire.



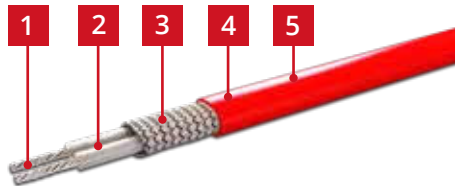
Connecting to the power supply

NOTE: All electrical connections must be performed by a certified electrician.

Chisel out channels for the power supply cable and floor sensor probe and secure with fixing tape. Wire the thermostat, following the instructions provided.

Completing the job

Apply a full bed of flexible tile adhesive over the taped wire and tile as normal, taking care not to damage or dislodge the heating wire. Grout the floor as soon as possible and allow the adhesive to fully dry before switching on the heater.



- 1. Multi-strand twin conductors heating element
- 2. Inner Insulation: advanced fluoropolymer
- 3. Earth Braid
- 4. Diameter 1.8mm
- 5. Outer Insulation: advanced fluoropolymer

Frequently Asked Questions

Can I use the Warmup® Loose Wire System as a primary heat source?

If your room is well insulated and complies with modern insulation levels you should be able to use Warmup as the sole heat source. However, if your house is an older property with lower insulation properties it is likely that an additional heat source may be required.

Warmup's Bathroom Collection is a solution in this case. Our Heated Towel Rails and Wall Heating systems provide the additional heat output you need, without compromising comfort and style. Heat loss calculations can be carried out by a builder, architect or heating engineer.

What type of flooring can I use over the Loose Wire System?

The Loose Wire System is specifically designed for use under tiles and natural stone. Consult the chart on page 14 - Warmup has a range of heating systems for virtually any floor finish.

What can I do if the heater is too big for my area?

Warmup® Loose Wire gives you the flexibility to alter the wire spacing. The spacings between each run of heating element can be brought down to a minimum of 50mm and a maximum of 100mm. **NOTE:** The heating wire cannot be shortened or cut at any stage. The correct size heater should be purchased for the floor area to be heated (e.g. the net heated area after all fixed units have been subtracted). If in doubt, call **0345 345 2288** and let our trained staff advise you.

Should I use primer with the Loose Wire System?

If the heating element is being laid directly onto a plywood or concrete subfloor, use the primer supplied. Leave to dry for 2-3 hours until tacky, then lay the heating element. If an insulated or standard tile backer board is being used, no primer is needed. We recommend you use Warmup Insulation Boards.

How long after installation can I turn the heaters on?

The flexible tile adhesive must be fully dried before the underfloor heating can be turned on. Allow a minimum of 7-10 days. Turning the system on too early can force the flexible tile adhesive to dry too quickly, causing it to crack.





Warmup® Inscreed Cable System

Warmup® Inscreed Cable System is excellent for installation within screeded floors of any size. Once installed, the heated screed can be covered with any flooring.

Option 1: Wire laid directly on insulation*

For use where the concrete base is thicker than 100mm or uninsulated

1. Floor Covering
2. Screed (min 50mm)
3. Inscreed Heater
4. Metal Fixing Bands
5. Insulation*
6. Subfloor



Option 2: Wire laid directly on concrete slab

For use where the concrete base is less than 100mm thick or insulated

1. Floor Covering
2. Screed (min 50mm)
3. Inscreed Heater
4. Metal Fixing Bands
5. Concrete Slab
6. Insulation*
7. DPM
8. Subfloor



* Insulation must be either foil faced or concrete faced and suitable for use with electric underfloor heating

Features	Technical Data
Tough – 6mm thick heating cable is protected by multiple layers of metal shielding and insulation	Operating voltage: 230 V AC: 50Hz
Floor covering can be changed without risk of damage to the heater	Output rating: 100 to 200W/m ²
Heating element meets the highest safety standards	Single 2.5m long 'cold tail' connection lead
Grounding braid makes it safe for wet rooms	Approvals: Fimko European compliant and CE & UKCA Marked
Versatile - compatible with all floor finishes	Lifetime Warranty & SafetyNet™ Installation Guarantee

Suitable for New - Build

Price Guide

Coverage at 100W/m ²	Coverage at 150W/m ²	Coverage at 200W/m ²	Product Code	Heater Length	Wattage	Amps	Price (Excl. 20% VAT)
1.8m ²	1.2m ²	0.9m ²	WIS180	9.0	180W	0.8A	£57.74
2.8m ²	1.9m ²	1.4m ²	WIS280	14.0	280W	1.2A	£80.84
3.9m ²	2.6m ²	2.0m ²	WIS390	19.5	390W	1.7A	£92.39
5.0m ²	3.3m ²	2.5m ²	WIS500	25.0	500W	2.2A	£109.71
6.5m ²	4.3m ²	3.3m ²	WIS650	32.5	650W	2.8A	£132.81
7.6m ²	5.1m ²	3.8m ²	WIS760	38.0	760W	3.3A	£138.59
10.0m ²	6.7m ²	5.0m ²	WIS1000	50.0	1000W	4.3A	£168.43
12.0m ²	8.0m ²	6.0m ²	WIS1200	60.0	1200W	5.2A	£197.31
14.6m ²	9.7m ²	7.3m ²	WIS1460	73.0	1460W	6.3A	£231.96
15.5m ²	10.3m ²	7.8m ²	WIS1550	77.5	1550W	6.7A	£237.73
17.7m ²	11.8m ²	8.9m ²	WIS1770	88.5	1770W	7.7A	£256.01
20.7m ²	13.8m ²	10.4m ²	WIS2070	103.5	2070W	9.0A	£277.19
26.0m ²	17.3m ²	13.0m ²	WIS2600	130.0	2600W	11.3A	£335.91
31.4m ²	20.9m ²	15.7m ²	WIS3140	157.0	3140W	13.7A	£388.84
33.7m ²	22.5m ²	16.9m ²	WIS3370	168.5	3370W	14.7A	£411.94

Accessories	Price (Excl. 20% VAT)
Metal Fixing Bands - 25m	£54.85
Fixing Tape - 50m	£10.10

Installation Guide

(Refer to installation manual for complete instructions)

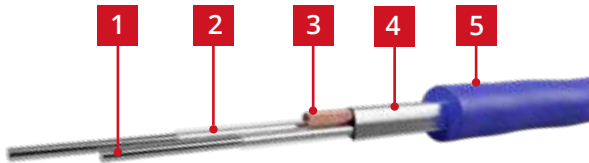
Draw up a floor plan to determine the placement of the thermostat, heating cable and the sensor probe.

Laying the Inscreed Cable System

The metal fixing strips should be laid out perpendicular to the heating element runs. Secure these fixing strips on the insulation or concrete floor using fixing nails or adhesive.

The fixing strips should be evenly spread across the floor at intervals of 0.75 meters and placed so as to leave a 100mm border all the way around the room.

The heating cables should then be laid up and down the room and clipped into the fixing strip. Please check the sizing guide at the back of the installation manual to determine the cable spacing. To ensure an evenly heated floor, the cables should be spaced evenly at all times.



1. Dual core, solid strand heating element
2. Inner insulation: Advanced Fluoropolymer
3. Copper drain wire
4. Aluminium mylar shield
5. Outer polyolefin sheath

Connecting to the power supply

The heating cable cold tail should be connected to the thermostat by a certified electrician. The heating cables should be tested again **BEFORE** screeding.

Completing the job

Once laid, the heating cables must be covered with a minimum thickness of 50mm screed.

Install the Warmup thermostat and floor probe in one of the following ways:

- Placed directly in the top 10mm of screed covering the heating wire
- Placed into a channel cut out of the surface of the screed
- Placed in a flexible conduit in the top 10mm of screed



Frequently Asked Questions

Can the Inscreed Cable System be shortened?

Never shorten the Inscreed Cable. You must ensure that the correct size is installed into the area. We have a large range of sizes to choose from.

How thick is the screed used with the system?

The Warmup® Inscreed Cable is designed to be placed within a screed of at least 50mm in thickness. The exact floor build up depends on the insulation materials in the subfloor - please see the installation manual for full details.

Can the Inscreed Cable System be laid directly onto insulation material? (i.e. single pour)

Yes, if you use cement-faced or foil-faced insulation boards suitable for electric underfloor heating such as the Warmup Insulation Boards.

When can I turn my heating on?

The heating should not be activated until the screed has fully cured (approximately 7 - 28 days).

Where should I place the floor probe?

The floor probe should be located at the surface of the screed layer below the floor covering (top 10mm of screed). It can also be cemented into a channel cut out of the surface of the screed.





Warmup® Foil Heater System

The Warmup® Foil Heater is a streamlined electric radiant floor heater designed for use with carpet, vinyl, wood and other floating floors. We recommend using the Warmup Insulated Underlay and Dual Overlay Systems (See pages 44 - 47) for maximum efficiency. Warmup has successfully completed controlled tests with Amtico and Karndean flooring.*

**excludes bathrooms; cannot steam clean carpets*

Contact Warmup to receive our technical guide for wood floors



amtico signature
Karndean Designflooring

BEAB Approved
Intertek CE UK CA

Features	Technical Data
Installed directly under floor finish; no self-levelling required	Construction: Wire with advanced fluoropolymer insulation, encased in aluminium foil
Fully earthed flat aluminium foil will not raise floor levels	Operating voltage: 230 V AC: 50Hz
Wire based system can be adapted to fit around objects	Output rating: 80W/m ² & 140W/m ²
Great for heating under floating floors such as laminate and hardwood	Mat width: 0.5m
	Mat length: min 3m, max 24m
	Heating cable spacing: 50mm
	Cold lead length: 3m
	Approvals: BEAB
	European compliant and CE & UKCA Marked
	15-Year Warranty & SafetyNet™ Installation Guarantee



SAFETYNet™
Installation-Guarantee

NOTE: Must be used with Warmup Dual Overlay (See pages 46 - 47) when laying vinyl or carpet.

NOTE: Always check compatibility of flooring with electric underfloor heating.

Price Guide

Area Heated	Heaters	Wattage	Amps	Price (Excl. 20% VAT)
1	WLFH-140W/140	140W	0.61A	£80.07
1.5	WLFH-140W/210	210W	0.91A	£97.23
2	WLFH-140W/280	280W	1.22A	£122.02
3	WLFH-140W/420	420W	1.83A	£183.99
4	WLFH-140W/560	560W	2.43A	£229.75
5	WLFH-140W/700	700W	3.04A	£282.18
6	WLFH-140W/840	840W	3.65A	£332.71
7	WLFH-140W/980	980W	4.26A	£385.14
8	WLFH-140W/1120	1120W	4.87A	£436.62
9	WLFH-140W/1260	1260W	5.48A	£493.82
10	WLFH-140W/1400	1400W	6.09A	£538.37
12	WLFH-140W/1680	1680W	7.30A	£644.55

MUST be used with the Warmup Insulated Underlay (See pages 44 - 45).
If you are laying a vinyl or carpet (excludes bathrooms) the Warmup Dual Overlay MUST be used. A maximum of 25m² of heating can be used with one thermostat.

For more information about this product and installation videos scan the code.



Always refer to the installation manual prior to commencing your project.



Installation Guide

(Refer to installation manual for complete instructions)

Warmup's foil heating mats are available in several convenient sizes. Use larger mats as much as possible and smaller mats as gap fillers. Ideally, the combination should cover 80% of your floor area. Exclude permanent or static fixtures from your calculations.

Laying the Foil Heater System

Lay the heating mats on top of the insulation, leaving a gap of around 50mm from the wall to the heating mats and a gap of about 10mm between each mat. Stretch and secure the mats to the floor with the aluminium tape provided. Additional duct tape can be used where required.

Place the mat's electrical supply cables towards the junction box, ensuring they do not cross each other. Create a slight groove in the insulation under the joint to ensure that the heating mat lays flat.

Connecting to the power supply

NOTE: All electrical connections must be performed by a certified electrician.

Completing the job

Create a groove in the subfloor to accommodate the floor probe. Connect the floor temperature sensor to the thermostat through a conduit and install between two heating wire runs on the mat. The probe wire must **NEVER** touch or be crossed by the heating element.

Frequently Asked Questions

What types of flooring can be used?

The Foil Heaters can be used under carpet, vinyl, wood or floating floorings provided their tog rating is equal or inferior to 1.0 and can withstand up to 27°C of heat. Check with the manufacturer to ensure it is suitable for use with electric underfloor heating.

Can the Foil Heaters be cut and turned?

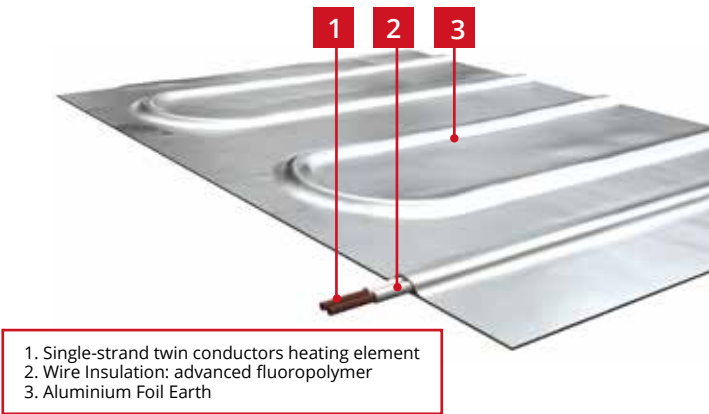
You can cut and turn the foil casing to suit the shape of the room, but **NEVER** cut the wire. Once the aluminium foil has been cut and the mat has been re-positioned, use the aluminium foil tape provided to cover any exposed wire and link the two pieces of the mat. Please see the installation manual for full details and diagrams.

When can I turn my Foil System on?

Once the finished floor has been laid, wired up and tested, the system can be switched on immediately.

Which insulation materials should be used?

We recommend Warmup's own brand Insulation Underlay to be used with Warmup® Foil Heaters. If you are installing a soft flooring such as vinyl or carpet, use the Warmup Dual Overlay to protect the foil heating wire from heels and heavy load points.

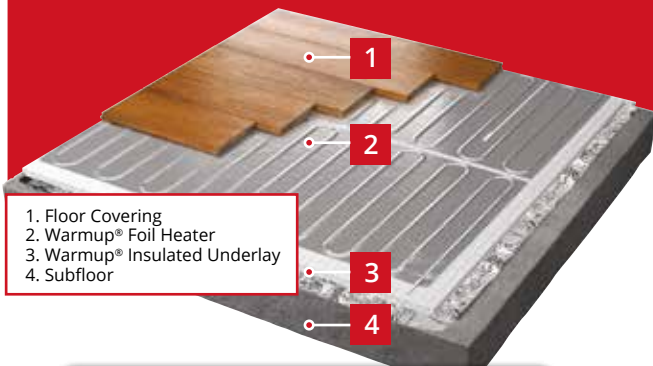




Warmup® Insulated Underlay

For use with Foil Systems

Warmup® Insulated Underlay is a thin polystyrene insulation barrier with effective acoustic properties to reduce contact noise. It sits between the cold subfloor and Warmup's Foil Heater, reflecting heat upwards, making the heating system even more efficient. The foil backing acts as a moisture barrier.



1. Floor Covering
2. Warmup® Foil Heater
3. Warmup® Insulated Underlay
4. Subfloor

Scan the code for more information about this product.

Always refer to the installation manual prior to commencing your project.



Features	Technical Data
Resists heat loss and increases the heating systems efficiency	Roll Size: 1,200mm (W); 2.5sqm, 5sqm, 10sqm and 25sqm
Extremely effective for reducing contact noise	Thickness: 6mm
Very thin at only 6mm in depth	Composition: Top Layer: Grooved polystyrene Bottom layer: Silver foil with adhesive overlap
Lightweight and easy to install	R Value: 0.17 m ² K/W
Foil backing acts as a moisture barrier	Contact sound reduction: 25dB ΔLw when used in conjunction with the Warmup Dual Overlay System.

Recommended for use with the Warmup® Dual Overlay System

Price Guide

Area Covered	Insulated Underlay System Code	Price (Excl. 20% VAT)
2.5m ²	WIU2.5	£31.78
5.0m ²	WIU5.0	£59.83
10.0m ²	WIU10.0	£115.93
25.0m ²	WIU25.0	£273.95

In the case of floating substrate systems the sound reduction of the finished floor covering will always depend on the impact sound reduction of the existing substrate.

Installation Guide

(Refer to installation manual for complete instructions)

Install the Insulated Underlay with the silver foil facing down onto a clean and dry floor. After fitting the first row, roll the next section of underlay. Remove the protective film from the self-adhesive overlap and stick both rows together, creating a damp proof barrier. Stagger subsequent rows until the whole floor area is covered.

Frequently Asked Questions

What is it made from?

The top layer of the underlay is comprised of a 6mm grooved lightweight polystyrene (which offers added acoustic properties by reducing contact noise) and a bottom layer of silver foil which has an adhesive overlap to join subsequent rolls. The underlay has a sound reduction of 25dB ΔLw when used in conjunction with Warmup® Dual Overlay (See pages 46 – 47). In the case of floating substrate systems, the sound reduction of the finished floor covering will always depend on the impact sound reduction of the existing substrate.

What is an R Value?

The R value is a measure of thermal resistance used in the construction industry. A rating of 0.17 represents a low level of insulation for energy efficiency but promotes faster response times when used over an insulated sub floor.

Can I use this under tiles and stone?

No. It is designed for installation with the Foil Heater when installed under soft and resilient floor coverings such as wood, carpet, vinyl and linoleum. When your finish needs to be fixed down (glued) such as carpet, then a combination of the Insulated Underlay, Foil Heater and Dual Overlay should be used. Warmup's Insulated Underlay has been specially developed as part of a complete stable overlay system with the Dual Overlay to protect the heating wire from sharp heels and heavy point loads. The combined thickness of the Warmup® Dual Overlay and the Warmup Insulated Underlay is 13mm.

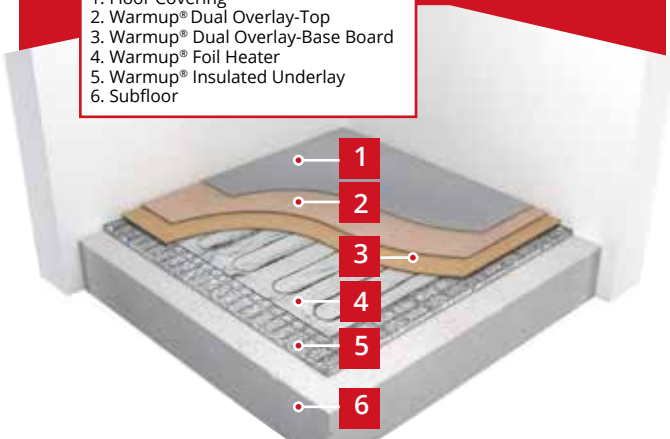


Warmup® Dual Overlay

For use with Foil Systems

Warmup® Dual Overlay is a free-floating subfloor, offering a smooth and seamless finish for carpet, vinyl and linoleum. The two layers protect the heating wire from sharp or heavy point loads and provide even heat distribution. Installation is dry, clean and quick. The Insulated Underlay and Dual Overlay are designed to work together with Warmup Foil Heaters

1. Floor Covering
2. Warmup® Dual Overlay-Top
3. Warmup® Dual Overlay-Base Board
4. Warmup® Foil Heater
5. Warmup® Insulated Underlay
6. Subfloor



Features	Technical Data
Consists of a base board (3mm deep) and top board (4mm deep) with a contact adhesive to bond them together	Contents: 4 base and 4 top boards (covers 2.88m²)
Provides a stable subfloor on which a variety of floor coverings can be laid	Size: 1,200mm (W) x 600mm (L)
Very thin at only 7mm in depth	Thickness: Base board - 3mm Top board - 4mm
Protects electric heating wire from damage if flooring is not laid immediately	Composition: MDF fitted with an interactive adhesive
Installation is quick, easy and dry - no need for self-levelling	Density (kg/m³): 770
Provides even heat distribution	Bending strength kg/cm²: >40
	Humidity (%): 4-10
	Thermal R value (m²K/W): 0.047
NOTE: Always check compatibility of flooring with electric underfloor heating.	Fire Class with 2 mm Vinyl: B _{f1-s1} Fire Class with 2 mm Linoleum: C _{f1-s1}

Price Guide

	Price (Excl. 20% VAT)
WDO - Dual Overlay System (covers 2.88m²)	£85.24/pk

Scan the code for more information about this product.

Always refer to the installation manual prior to commencing your project.



Installation Guide

(Refer to installation manual for complete instructions)

The Warmup® Dual Overlay is comprised of a 3mm deep base board and 4mm deep top board. The bottom and top layers are laid out with staggered joints and arranged so that the top boards overlap the joints in the base boards. The Warmup® Foil Heating System lays between the Underlay and Dual Overlay System. This method of installation provides a stable surface for the floor finish to rest on and avoid any joints showing through the final floor finish. Finally, the floor finish can either be glued to the boards as a final layer or simply laid freely upon them.

Frequently Asked Questions

Is the Dual Overlay fixed to the subfloor?

The Warmup® Dual Overlay is a floating subfloor - it is not fixed to the floor below. It is comprised of a 3mm deep base board and a 4mm deep top board. Both boards have contact adhesive, bonding them together to make one solid subfloor, to which a variety of floor coverings may be fixed. It provides a smooth and seamless subfloor making it suitable for soft and resilient floor coverings such as carpet, vinyl and linoleum. The combined thickness of the Underlay and Dual Overlay is 13mm.

How is it sold?

Each pack contains: 4 base boards & 4 top boards and covers 2.88m² of flooring.

Can I use other Warmup Heaters with the Underlay/ Dual Overlay?

The Warmup Underlay / Dual Overlay systems are designed to work specifically with Warmup Foil Heaters only.

Please Note:

* Cannot be used in wet areas such as bathrooms.

**It is strongly recommended to dry clean carpet flooring laid on Dual Overlay. Do not steam clean, as this can cause moisture to get into the wood and joints and show through the flooring over time.

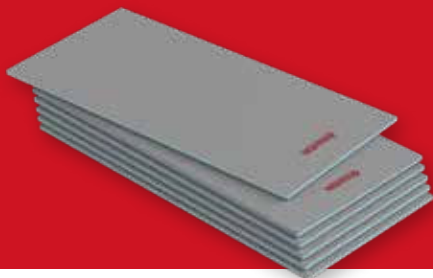


Cement Coated Insulation Boards

Insulates and waterproofs

Suitable for walls and floors

Approved for use with DCM-PRO



Insulation boards prevent heat loss to the subfloor - a warm floor can be achieved in as little as 20 minutes compared to over 2 hours with no insulation (see the heat-up chart on page 52 for more details).

Features	Technical Data
Easy to cut and shape around fixtures with a knife or saw	Board size: 1,250mm (L) x 600mm (W)
Comes in a range of thicknesses to suit floor and wall applications. Can be fixed to solid or stud walls	Thickness: 6mm, 10mm, 20mm, 30mm, 40mm, 50mm
Holds wall tiles up to 60kg/m ² and floor tiles up to 30 tonnes/m ²	Composition: Extruded polystyrene, each side faced with a nominal 0.5mm thick glassfibre mesh reinforced polymer-modified cement mortar
Joints must be sealed to make them waterproof	R Value: (6mm) 0.12; (10mm) 0.24; (20mm) 0.55; (30mm) 0.85; (40mm) 1.15; (50mm) 1.45
High thermal insulation, resisting heat loss and increasing the heating system's efficiency	Class "0/B1" to Euroclass E
	No primer required when used in conjunction with underfloor heating
Ready for tile/plaster – no additional prep work needed	CE & UKCA Marked
Excellent as internal wall insulation especially when compared to standard cement building boards and plaster boards	Conforms to Building Regulations Part L

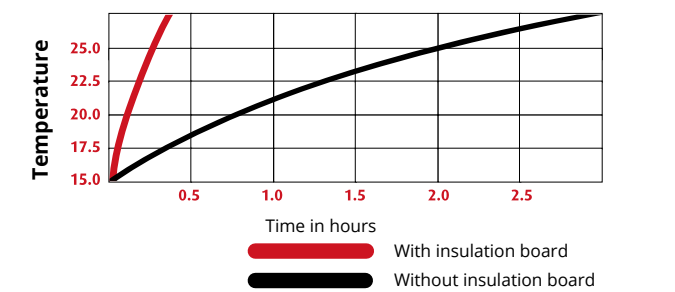
Price Guide

Area Heated (m ²)	No. of Boards req	Price (Excl. 20% VAT)					
		6mm	10mm*	20mm	30mm	40mm	50mm
1	2	£42.78	£42.78	£57.66	£71.60	£82.76	£103.22
2	3	£64.17	£64.17	£86.49	£107.40	£124.14	£154.83
3	5	£106.95	£106.95	£144.15	£179.00	£206.90	£258.05
4	6	£128.34	£128.34	£172.98	£214.80	£248.28	£309.66
5	7	£149.73	£149.73	£201.81	£250.60	£289.66	£361.27
6	9	£192.51	£192.51	£259.47	£322.20	£372.42	£464.49
7	10	£213.90	£213.90	£288.30	£358.00	£413.80	£516.10
8	11	£235.29	£235.29	£317.13	£393.80	£455.18	£567.71
9	13	£278.07	£278.07	£374.79	£465.40	£537.94	£670.93
10	14	£299.46	£299.46	£403.62	£501.20	£579.32	£722.54
11	15	£320.85	£320.85	£432.45	£537.00	£620.70	£774.15
12	17	£363.63	£363.63	£490.11	£608.60	£703.46	£877.37
13	18	£385.02	£385.02	£518.94	£644.40	£744.84	£928.98
14	20	£427.80	£427.80	£576.60	£716.00	£827.60	£1,032.20
15	21	£449.19	£449.19	£605.43	£751.80	£868.98	£1,083.81
16	22	£470.58	£470.58	£634.26	£787.60	£910.36	£1,135.42
17	24	£513.36	£513.36	£691.92	£859.20	£993.12	£1,238.64
18	25	£534.75	£534.75	£720.75	£895.00	£1,034.50	£1,290.25
19	26	£556.14	£556.14	£749.58	£930.80	£1,075.88	£1,341.86
20	28	£598.92	£598.92	£807.24	£1,002.40	£1,158.64	£1,445.08

Product Code	Description	Length (mm)	Width (mm)	Thickness (mm)	Price (Excl. 20% VAT)
INSBOARD6mm	6mm Cement Coated Insulation Board	1250	600	6	£21.39
INSBOARD10mm	10mm Cement Coated Insulation Board	1250	600	10	£21.39
INSBOARD20mm	20mm Cement Coated Insulation Board	1250	600	20	£28.83
INSBOARD30mm	30mm Cement Coated Insulation Board	1250	600	30	£35.80
INSBOARD40mm	40mm Cement Coated Insulation Board	1250	600	40	£41.38
INSBOARD50mm	50mm Cement Coated Insulation Board	1250	600	50	£51.61
INSBOARDPLAIN10mm	10mm Uncoated Insulation Board	1250	600	10	£12.27
INSBOARDPLAIN20mm	20mm Uncoated Insulation Board	1250	600	20	£13.20

*Standard board thickness = 10mm

Heat-Up Chart



In testing, heat-up time was cut from over 2 and a half hours to just 20 minutes. This data applies to Warmup® heating products only.

* Assumes a system running twice a day for 2 hours on a concrete subfloor

** Source: Warmup tests performed to EN442-2 standards

Installation Guide

(Refer to installation manual for complete instructions)

Installation onto concrete floors

Lay the boards on a concrete base and stagger the joints. Fix the boards to the concrete base with a suitable flexible tile adhesive. Once the adhesive hardens, tape the joints with glassfibre tape.

Installation onto wooden floors (Contact us on 0345 345 2288 to receive a copy of our technical guide for wood flooring or visit www.warmup.co.uk).

On a wooden subfloor, lay the boards and stagger the joints. Fix with a suitable flexible tile adhesive. When the adhesive has set but not necessarily dried, fix the boards with a screw fixing and washer at 200mm spacings. Ensure the screw head is flush with the surface. Reinforce the joints with glassfibre tape.

Installation onto walls

Fix the lightweight boards to any suitable framework, such as wood or brick. Boards can easily be cut with a knife or sawed to work around objects. Use 8 galvanised screws per m² at a minimum of 30mm from edges. Tighten screws until washers bite the board surface, then level the washer with a rubber mallet. Cover joints with self adhesive glassfibre tape embedded in a layer of flexible tile adhesive.

Installation video for Warmup® Insulation Boards.

Always refer to the installation manual prior to commencing your project.



Item Code	Description	Price (Excl. 20% VAT)
TAPEINS90M	Glass Fibre Tape - 90 meter roll	£4.65
WIBS40MM	Wooden Screws - 40mm (100 per pack)	£3.68
WIBW35MM	Penny Washers - 36mm diameter (50 per pack)	£11.02

Frequently Asked Questions

Where can I use it?

Floors & Walls: Warmup® Insulation Boards can be used as a structural tile backer board on the floor, withstanding a load of 30 tonnes/sqm and are ideal for use with underfloor heating. They offer the added benefit of high sound proofing properties. We recommend a minimum thickness of 6mm on a concrete subfloor and 10mm on a wooden subfloor for floor stability. As wall tile backer boards, tiles can be fixed directly onto the surface without prior preparation. When the joints are sealed it is totally waterproof, offering an ideal solution for use in bathrooms, shower rooms, wetrooms and kitchens.

What is it made from?

Warmup® Insulation Boards are made of waterproof extruded polystyrene and have a glassfibre mesh embedded on each face, onto a cement polymer adhesive. The boards are fully waterproof, preventing any water to pass through them in the way expanded polystyrene boards do. They are lightweight, easy to cut with a knife and install onto any surface. Being free of harmful asbestos, they pose no health or safety risks and are unaffected by the freeze/thaw cycle.

What is an R Value?

The R value is a measure of thermal resistance used in the construction industry. The higher the R value the better an insulator (e.g. 10mm Warmup® Insulation Boards have an R value of 0.24 m²K/W and the 20mm Warmup® Insulation Boards have an R value of 0.55 m²K/W). All buildings should strive for the highest possible R values to reduce the amount of energy used.

Why do you recommend insulation boards on a concrete base?

Insulation boards can reduce running costs by as much as 50% because they are a highly efficient thermal barrier to cold rising from the subfloor. By reflecting the heat upwards into the floor instead of losing heat to the subfloor, the floor will be warm in approximately 20 minutes after the system comes on. Without insulation boards it could take several hours. This is important for energy efficiency for today's energy-conscious consumers. See the heat up chart example on **page 52** for more details.

Bathroom Collection

Warmup

The world's **best-selling** floor heating brand™



StickyMat 3D™ (Pages 58 – 59) shown under tiles,
Burdock Single Bar Heated Towel Rail (Page 54 - 55) shown on wall.

Bathroom Collection by Warmup

A Warmup bathroom is an oasis of calm in your busy life where your wellbeing takes precedence. Experience the pleasure of gently heated floors and walls on a cold winter's morning. Reach for a soft, warm towel from a Heated Towel Rail after your shower. Say goodbye to fogged-up mirrors forever.

The Warmup Bathroom Collection combines cutting-edge technology with classic British design to create the stylish bathroom of your dreams.

Transform your bathroom in 6 easy steps.



Underfloor Heating

Install a Warmup Floor Heater for energy-efficient, radiant warmth (see page 22 – 43)



Wall Heating

Add a touch of luxury with Wall Heating solutions from Warmup (see page 58 – 59)



Heated Towel Rail

Choose the perfect Warmup Heated Towel Rail for your Bathroom (see pages 54 – 57)



Mirror Demister

Warmup Mirror Demisters are easy to use and quick to install (see page 57)



Floor Insulation

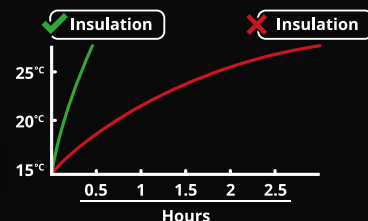
Heat up times in as little as 30 minutes. Reduces running costs and can pay for itself in 3.5 years (see pages 44 – 51)



Wall Insulation

No more cold walls. Wall insulation boards reduce heat loss and lost energy from the room by over 20% (see pages 44 – 51)

Insulation Boards



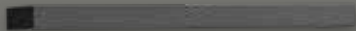
6mm | 10mm | 20mm | 30mm | 40mm | 50mm
1250mm x 600mm

Bathroom Collection

Warmup Single-Bar Towel Rails



Tulsi Round Single Bar – Brushed



Burdock Square Single Bar – Brushed



Tulsi Round Single Bar – Polished



Burdock Square Single Bar – Polished

- Dry heating technology, maintenance free with no risk of leaks
- High quality 304 grade stainless steel, corrosion and stain resistant
- Easy to install, supplied with fixing kit
- IP55 – Suitable for use in Zone 1
- 230 V AC: 50H

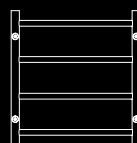


Product code	Name	Product & Finish	Dimensions	Price (Excl. 20% VAT)
HTR-1ROPO	Tulsi	Round Single Bar Medium Towel Rail Polished	650 x 31.8mm	£88.31
HTR-1SQPO	Burdock	Square Single Bar Medium Towel Rail Polished	650 x 40mm	£97.34
HTR-1ROBR	Tulsi	Round Single Bar Medium Towel Rail Brushed	650 x 31.8mm	£86.52
HTR-1SQBR	Burdock	Square Single Bar Medium Towel Rail Brushed	650 x 40mm	£95.53

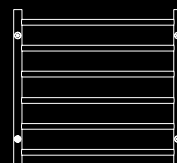
Bathroom Collection

Warmup Multi-Bar Ladder Towel Rails

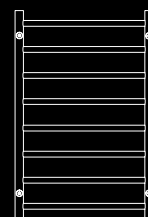
- Stylish polished multi-bar stainless steel finish
- High quality 304 grade stainless steel, corrosion and stain resistant
- Dry heating technology, maintenance free with no risk of leaks
- Easy to install, supplied with fixing kit
- IP55 – Suitable for use in Zone 1
- 230 V AC: 50H



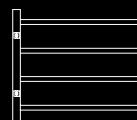
Anise 4-Bar



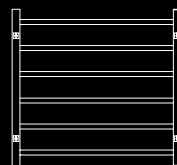
Anise 6-Bar



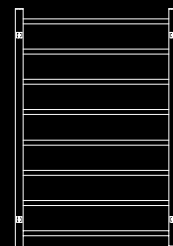
Anise 8-Bar



Hawthorn 4-Bar



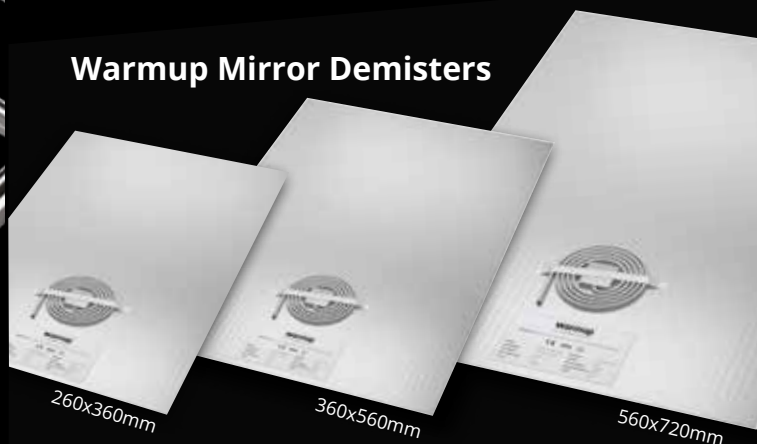
Hawthorn 6-Bar



Hawthorn 8-Bar

Product code	Name	Product & Finish	Dimensions H x W	Price (Excl. 20% VAT)
HTR-4ROPO	Anise	4 Bar Ladder Straight Round Towel Rail Polished	520 x 500mm	£183.86
HTR-4SQPO	Hawthorn	4 Bar Ladder Straight Square Towel Rail Polished	435 x 525mm	£205.49
HTR-6ROPO	Anise	6 Bar Ladder Straight Round Towel Rail Polished	600 x 650mm	£250.54
HTR-6SQPO	Hawthorn	6 Bar Ladder Straight Square Towel Rail Polished	600 x 650mm	£264.97
HTR-8ROPO	Anise	8 Bar Ladder Straight Round Towel Rail Polished	800 x 530mm	£374.91
HTR-8SQPO	Hawthorn	8 Bar Ladder Straight Square Towel Rail Polished	912 x 620mm	£398.35

Warmup Mirror Demisters



Every bathroom needs a mirror – and all mirrors steam up. Warmup Mirror demisters are the perfect solution; a thin film which sits between the back of the mirror and the wall – ensuring you never find yourself in the all too common predicament of wiping and smearing your mirror.



Product code	Single Bar Towel Rails	Dimensions	Price (Excl. 20% VAT)
MD-SML1	Mirror Demister – Small	260 x 360	£43.26
MD-MED1	Mirror Demister – Medium	360 x 560	£54.08
MD-LRG1	Mirror Demister – Large	560 x 720	£75.71
MD-CIRC (Circular pad)	Circular Mirror Demister	Ø = 560mm	£72.09

StickyMat 3D™

Wall Heating Mat

Warmup's StickyMat 3D offers radiant warmth for cold bathroom walls. It's the perfect way to increase heating power in smaller spaces.

Featuring a self-adhesive backing for easy installation, the StickyMat 3D is available in a range of sizes and features unique in-built earthing technology, making it the only system suitable for use on walls straight out of the box.

Strong Adhesive Mesh

Mesh with pressure sensitive adhesive allows you to reposition easily before securely sticking the mat to the substructure.

3mm Thickness

Ultra-thin 3mm plus wire with tough fluoropolymer inner & outer insulation allows you to tile directly over the mat.

Easy to install

Simply roll out the mat and cut and turn to fit. Wire can be easily removed from mesh for irregular spaces.

Available for Floor Heating

StickyMat™ is also available as a floor heating mat. StickyMat 3D™ can be combined with StickyMat™ and a Warmup thermostat for the perfect bathroom experience.

Area Heated	Item Code	Description	Price (Excl. 20% VAT)
0.5m ²	2SMFW0.5	200W/m ² StickyMat 3D	£77.18
1m ²	2SMFW1	200W/m ² StickyMat 3D	£126.79
1.5m ²	2SMFW1.5	200W/m ² StickyMat 3D	£159.86
2m ²	2SMFW2	200W/m ² StickyMat 3D	£176.40



Hidden Heating

Maintenance free hidden heating solution with quicker drying tiles and better air quality.



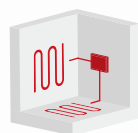
Luxurious Warmth

Be surrounded by gently radiated warmth. No more cold spots in the room.



Fully Compliant

Unique earthing technology - the only wall heating mat fully compliant with new regulations.



Easy to install

Connects to existing floor heating thermostat. Self-adhesive mesh installs in minutes, ready to be tiled directly over.



Warmup® Smart.

Our Philosophy

Warmup Smart is passionate about creating products that work simply and beautifully, whilst improving the efficiency and comfort of your home. We believe that your home is where you feel safe, relaxed and comfortable; the place you go to disconnect from all the distractions of day-to-day life. Our work is built on these foundations.

Our goal is to improve home-life.

With Warmup Smart, managing your heating system has never been so easy. Our smart products save you energy and money, on average £378 per year for a typical UK home. They eliminate the necessity to manage your system, without any effort on your behalf, giving you one less thing to worry about and allowing you to focus on the things that matter, like family, friends and stress-free time.



SmartGeo™

Always at the right temperature automatically, and up to 25% lower energy usage. Just like magic



Easy to use

Simple and secure set up using WiFi, with 24/7 technical support



AutoSwitch™

Always on the best tariff, automatically. Saving on average £210

The Result

Perfect central heating control from Warmup 6iE, saving on average **£378** per year.

A Greener Way to Heat Your Home

Homes heated with underfloor heating are more comfortable and up to 40% more efficient than those using traditional central heating systems. Warmup floor heaters offer a low-carbon heating solution and utilise radiant heat technology to warm people in a space with infrared energy, rather than just warming the air. With over 25 years of innovation and expertise, Warmup products have been installed in over 2.5 million homes across the world and are trusted for their high-quality design and market-leading warranties. A Warmup system provides a cleaner, smarter, and often more affordable way to heat your home.

6iETM WiFi Thermostat

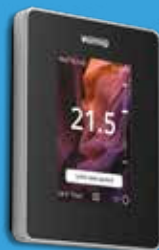
The smartest, most efficient way to control
the world's best selling floor heating



6iE™ WiFi Thermostat

NEW

For use with both electric and water underfloor heating systems, the 6iE does not require programming and uses Warmup's latest technologies to ensure your home is always at the right temperature, at the right time, for you. Effortlessly.



CE UK CA



Automated control of your heating

Unique **SmartGeo™** automatically turns down the heating when you're out.

Only thermostat with a smartphone display

The world's first underfloor heating thermostat with a **smartphone touchscreen**.

Reduces energy use by up to 25%

Reduce energy use by up to 25% with the energy efficient **MyHeating app** technology.

Data security you can trust

Developed and operated by Warmup PLC in London, with **data encryption and high security**.

Reduce energy bills by over £400

Using less energy and switching to a cheaper tariff with Warmup **AutoSwitch™**.

Custom photo backgrounds

The **only underfloor heating thermostat** you can personalise with photo backgrounds.

Code	Description	Price (Excl. 20% VAT)
6iE WiFi OB	Onyx Black Smart WiFi Thermostat	£149.46
6iE WiFi BP	Bright Porcelain Smart WiFi Thermostat	£149.46

Features

The 6iE Smart WiFi Thermostat is the world's first underfloor heating controller with a Smartphone touchscreen.

It features advanced technology to maximise on the energy-efficiency of a Warmup system – helping to reduce your energy bills by up to £400.

For use with both electric and water underfloor heating systems.

6iE does not require programming and uses Warmup's latest technologies to ensure your home is always at the right temperature, at the right time, for you.

The SmartGeo technology within 6iE's partnered MyHeating app controls your heating automatically by knowing how far from home you are and warming your home in time for your arrival. This prevents energy wastage and can save you up to 25% on your energy bills.

The 6iE underfloor heating thermostat is also compatible with other Smart devices in your home through the IFTTT platform, allowing communication between the WiFi underfloor heating controller and an Amazon Alexa for instance.

Stylish colours to suit any decor



*Upgrade for just £24.99 inc. VAT at www.warmup.co.uk

Technical Data

Max. Load: 16A (3680W)

Max. Ambient Temperature: 0 - 40°C

Operating Frequency: 2401 - 2484MHz

Sensors: Air & Floor (Ambient) (can be extended to 50m)

Sensor Type: NTC 10K 3m Long (can be extended to 50m)

Dimensions: (H/W/D): 90mm x 115mm x 39mm

Size of display: 3.5"

Installation depth: 50mm back box recommended (35mm minimum)

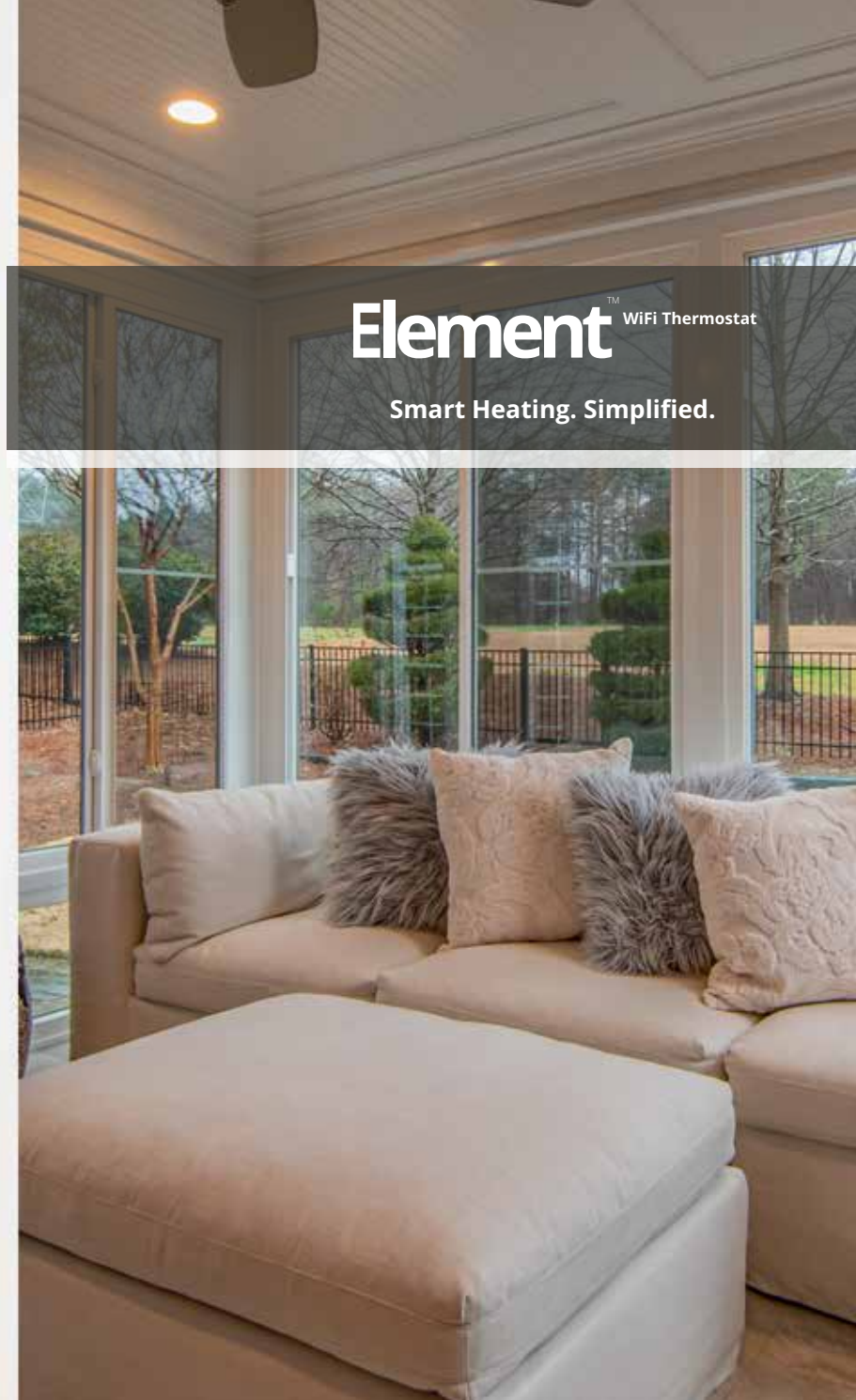
IP rating: IP33

Approvals: BEAB

European compliant and CE & UKCA Marked

12-Year Warranty with option to **upgrade to Lifetime Warranty**

Er-P Class: IV



ElementTM WiFi Thermostat

Warmup's Element WiFi Thermostat has been designed with simplicity and stylish functionality in mind. It brings energy-efficient heating control to all Warmup floor heaters.



NEW



Element Light Thermostat



Element Dark Thermostat



Automated control of your heating

Unique **SmartGeoTM** automatically turns down the heating when you're out.

Beautiful, discreet design

Premium materials and construction in an elegant and sophisticated design.

Reduces energy use by up to 25%

Reduce energy use by up to 25% with the energy efficient **MyHeating app** technology.

Data security you can trust

Developed and operated by Warmup Plc in London, with **data encryption and high security.**

Reduce energy bills by over £400

Using less energy and switching to a cheaper tariff with Warmup **AutoSwitchTM.**

Small, simple and easy to use

Easy control with touch buttons. Change the temperature up or down and confirm with a tick

Code	Description	Price (Excl. 20% VAT)
ELM-01-OB-DC	Warmup Element WiFi Dark Thermostat (Band Colour: Dark Chrome)	£112.12
ELM-01-WH-RG	Warmup Element WiFi Light Thermostat (Band Colour: Rose Gold)	£112.12

Features	Technical Data
Sophisticated, stylish design	Max. Load: 16A (3680W)
Helps save over £400 on energy bills	Max. Ambient Temperature: 0 - 40°C
For use with both electric and water underfloor heating systems.	Operating Frequency: 2401 - 2484MHz
Compatible with all Warmup Underfloor Heating Systems	Sensors: Air & Floor (Ambient) (can be extended to 50m)
Automatic heat functionality	Sensor Type: NTC 10K 3m Long (can be extended to 50m)

Helps find the most efficient heat settings for your home

Dimensions: (H/W/D): 86 x 86 x 16 mm

Stylish colours to suit any decor

Size of display: 1.8"

Combining Smart technology with simple, contemporary design, the Element WiFi Thermostat is the perfect all-rounder to control Warmup heating systems.

Installation depth: 50mm back box recommended (35mm minimum)

IP rating: IP33

Approvals: BEAB

European compliant and CE & UKCA Marked

12-Year Warranty with option to upgrade to Lifetime Warranty

Er-P Class: IV



*Upgrade for just £15 inc. VAT at www.warmup.co.uk



How SmartGeo™ works?



Waking up

SmartGeo™ learns what time you wake up and makes sure your home is at a comfortable temperature at the perfect time.

Leaving home

SmartGeo™ understands what time you are likely to leave for work. Knowing that you will probably be away all day, it automatically changes to an efficient away temperature.

Home early

SmartGeo™ has noticed that you are returning home unexpectedly and ensures the house is comfortable by changing to an energy efficient comfort temperature.

Change of routine

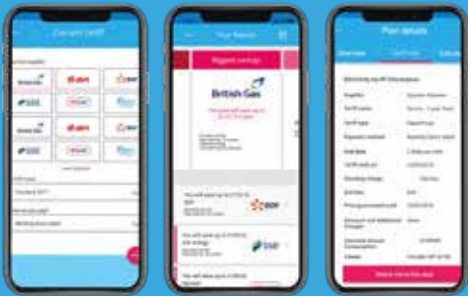
Dinner plans with friends cause you to break your daily routine. **SmartGeo™** notices an unexpected empty house and decreases the temperature to save more energy until you return.

Returning home

SmartGeo™ notices that you are returning home and adjusts the heating so that it is at the ideal temperature for your arrival.



Your data is private, including your location **SmartGeo™** works without Warmup, knowing your location, only how far from home you are, and uses the systems already built into your smartphone.



Stay on the best energy tariff for your home, every year, completely hassle free.

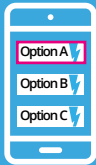
AutoSwitch™ works in the background, on your behalf, to find you the **best value tariffs every year** and can switch you to them automatically – **saving you £210 on your energy deal.**

Get started in 3 simple steps

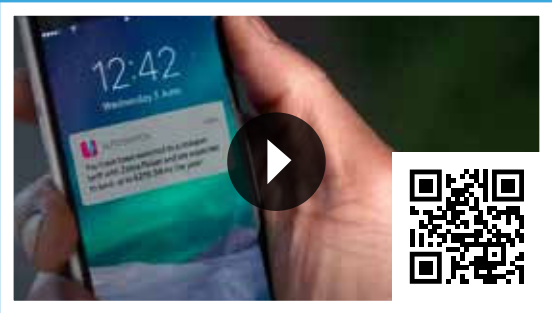
Scan the QR code



Choose your plan



Enable AutoSwitch



Choose Warmup Smart Thermostats for automatic, energy-efficient heating

Underfloor heating is energy-efficient.

Energy use in homes accounts for 14% of all CO2 emissions in the UK and sustainable energy solutions are more important than ever before.

Our radiant underfloor systems keep you warm using less energy than central heating systems and with **this increased efficiency, You can save money on your heating bills too.**



TEMPO PROGRAMMABLE THERMOSTAT

The Tempo thermostat enables end users to choose the time as easily as they would with a watch or clock and quickly set their programs – heat on when they want it and off when they don't need it.



Piano Black

Porcelain White



Features	Technical Data
Stylish and contemporary design Clear screen displaying program details	Input voltage: 230 V AC: 50H Max. Load: 16A, 3680W
Easy control with dial and sliders	Dimensions: (H/W/D): 90 x 113 x 23mm (flush fit)
Suitable with all Warmup electric and water underfloor heating systems	Screen size: 45 x 50mm
Available in Porcelain White and Piano Black	Sensors: Floor/Air
Perfect for the whole house with the exception of the bathroom	Sensor Type: NTC 10K 3m Long (can be extended to 50m) Programming: 7-day, 1 day, 5/2 day
	Battery backup: 3 months (CR2032 battery provided)
	IP rating: IP20
	Approvals: BEAB
	European compliant and CE & UKCA Marked
	3-Year Warranty with option to upgrade to Lifetime Warranty
	Er-P Class: IV



*Visit www.warmup.co.uk for more details



Also available



MSTAT Manual Thermostat
Suitable with Warmup's electric underfloor heating systems only



RCD/Fused Spur 30mA Residual Current Device
Fused Spur

Price Guide

Programmable Thermostat	Price (Excl. 20% VAT)
Tempo - Piano Black Programmable Thermostat	£104.99
Tempo - Porcelain White Programmable Thermostat	£104.99
Manual Thermostats	Price (Excl. 20% VAT)
MSTAT - White Manual Thermostat	£72.79
Accessories	Price (Excl. 20% VAT)
RCD/Fused Spur - 30mA Residual Current Device	£53.29

Tempo in each zone provides the following:

- ✓ **BETTER** easy-to-use interface and intuitive design
- ✓ **FASTER** set-up takes just minutes to get right the first time
- ✓ **SMARTER** control of energy costs

With Tempo, end users can simply program their settings to suit individual requirements, warmer when they are at home, lower when they are away or asleep.

It will help avoid wasting energy and achieve savings on utility bills.

Its Proportional Adaptive Function ensures the room does not over-heat, reducing wasted energy whilst also protecting the components inside. The Early Start algorithm learns how long it takes to warm the room and activates the heating so it's up to temperature at the right time.

Frequently Asked Questions

What is the difference between Tempo and the 3iE® Energy-Monitor Thermostat?

The main difference is the 3iE's energy-monitoring function. The monitor tracks your exact usage and based on your fuel rates, displays your underfloor heating costs. Through the Active Energy Management, it gives users suggestions to lower usage and fuel costs without sacrificing comfort.

How does it work?

The sliding lever on the right-hand side takes you through the four easy program steps to set the day, time and heat periods you desire. Turn the dial to increase or decrease the settings and then press to secure that setting. The sliding lever at the bottom allows you to select between manual, automatic, frost-protection or off modes.

konekt

W I R E L E S S

The only integrated wireless smart control system for underfloor heating, radiators and security in one app



Wireless thermostat with humidity sensor



Warmup's Konekt Thermostat provides precise heat control for your water underfloor heating system. Its easy-to-use interface makes setting your optimal comfort temperature simpler than ever.

- ✔ Simple installation – perfect for new systems or retrofitting
- ✔ Boost function – heat up the room quickly with the push of a button
- ✔ Creates a Smart water floor heating system

Technical Data

Supply voltage: 24 V/50 Hz

Current consumption: 1 A max.

Max. switching capacity: 230 W

Degree of protection: IP20

Load type: ohmic load

Cable type and cross section: rigid and flexible cable, 0.75 - 1.50 mm²

Installation: only in normal commercial switch boxes (device boxes) in accordance with DIN 49073-1

Ambient temperature (operation): 0 to 50 °C

Dimensions (W x H x D): without frame: 55 x 55 x 54 mm, incl. frame: 86 x 86 x 54 mm

Weight: 136 g

Radio frequency band: 868.0-868.6 MHz, 869.4-869.65 MHz

Typ. open area RF range: 130 m

Price Guide

Product Code	Description	RRP (ex VAT)
UK-WUK-CO-KW-STATH	Warmup konekt Wireless Thermostat with Humidity Sensor	£74.77

Wireless eTRV



The Konekt Wireless eTRV uses Smart technology to provide automatic heat control for radiators. It can help reduce typical energy usage by up to 30%.

- ✔ Saves up to 30 % on energy usage
- ✔ Open window detection – automatic temperature regulation
- ✔ Easy installation – for standard radiator valves with M30 thread



Technical Data

Supply voltage: 2x 1.5 V LR6/Mignon/AA

Current consumption: 100 mA max

Battery life: 2 years (typ.)

Degree of protection: IP20

Ambient temperature: 0 to 50 °C

Dimensions (W x H x D): 57 x 68 x 102 mm

Weight: 185 g (including batteries)

Radio frequency band: 868.0-868.6 MHz, 869.4-869.65 MHz

Typ. open area RF range: 250 m

Connection: M30 x 1.5 mm

Price Guide

Product Code	Description	RRP (ex VAT)
UK-WUK-CO-KW-UKETRV	Warmup konekt Wireless eTRV (UK)	£49.50

Wireless Smart Hub



Warmup's Konekt Wireless Smart Hub acts as the heart of your Smart home. Install alongside your heating system for intuitive, remote control from wherever you are.



- ✓ Access your Smart home system from anywhere, at any time
- ✓ Hassle-free installation and set-up
- ✓ High security and secured data - AES 128 encryption



Technical Data

Supply voltage: 5 VDC

Plug-in mains adapter (input): 100 V-240 V/50 Hz

Power consumption plug-in mains adapter: 2.5 W max.

Current consumption: 500 mA max.

Power consumption in standby: 1.1 W

Degree of protection: IP20

Ambient temperature: 5 to 35 °C

Dimensions (W x H x D): 118 x 104 x 26 mm

Weight: 153 g

TRadio frequency: 868.3 MHz/869.525 MHz

Typ. open area RF range: 400 m

Network: 10/100 MBit/s, Auto-MDIX

Price Guide

Product Code	Description	RRP (ex VAT)
UK-WUK-CO-KW-UKHUB	Warmup konekt Wireless Smart Hub (UK)	£74.77

Wireless Boiler 2-Channel Switch



The Konekt Boiler 2-Channel Switch offers switching of heating sources via two channels, allowing a more energy-efficient heating solution.

- ✓ Switching of heating pumps, circulation pumps, boilers, electric radiators and any other consumers
- ✓ Can be used as heat demand relay for controlling heating pumps
- ✓ Simple and flexible installation



Technical Data

Supply voltage: 230 V/50 Hz

Current consumption: 16 A max.

Standby power consumption: < 0.2 W

Load type: ohmic load

Switching channel 1: 3680 W

Switching channel 2: 1150 W

Changeover contact: 1-pole, μ contact

NO contact: 1-pole, μ contact

Degree of protection: IP20

Ambient temperature: 0 to 50 °C

Dimensions (W x H x D): 120 x 130 x 30 mm

Weight: 165 g

Radio frequency band: 868.0-868.6 MHz; 869.4-869.65 MHz

Typ. open area RF range: 250 m

Price Guide

Product Code	Description	RRP (ex VAT)
UK-WUK-CO-KW-BLR2CH	Warmup konekt Wireless Boiler 2-Channel Switch	£104.03

Wireless 10-channel wiring centre



The Konekt Wiring Centre provides full room-by-room control for your Warmup water underfloor heating systems. Several Wiring Centres can be used together for larger projects.

- ✔ Offers control for up to 10 heating zones
- ✔ Use more than one for bigger projects
- ✔ Fast installation - screwless plug-in/ clamp connection technology



Technical Data

- Supply voltage:** 24 V/50 Hz
- Current consumption:** 6.3 A max.
- Maximum switching capacity channel 1:** 1380 W
- Maximum switching capacity channel 2-10:** 253 W
- Degree of protection:** IP20
- Ambient temperature:** 0 to 50° C
- Dimensions (W x H x D):** 225 x 75 x 52 mm
- Weight:** 566 g
- Radio frequency band:** 868.3 MHz/869.525 MHz
- Typ. open area RF range:** 270 m
- Max. number of heating zones:** 10

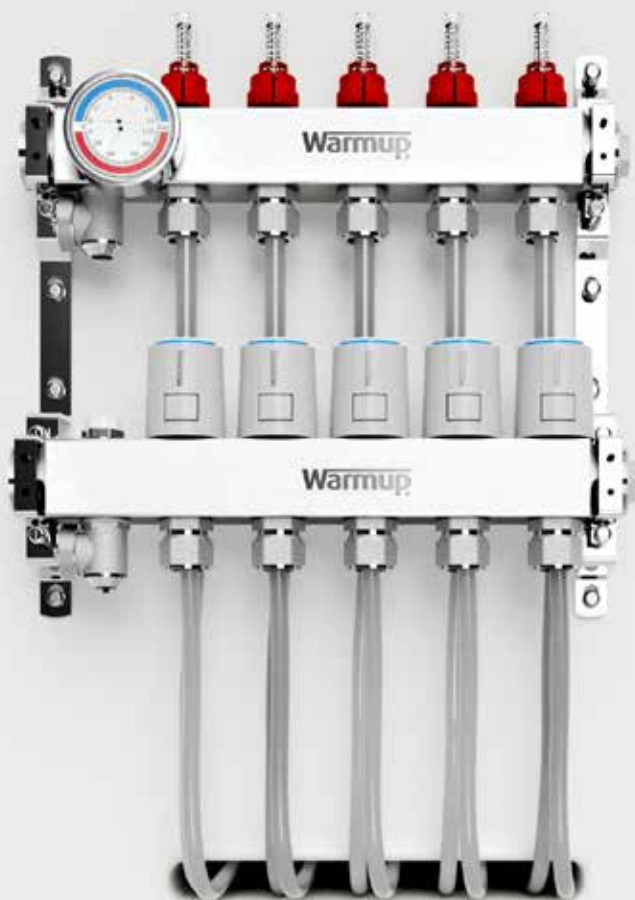
Price Guide

Product Code	Description	RRP (ex VAT)
UK-WUK-CO-KW-WC10CH	Warmup konekt Wireless 10-Channel Wiring Centre 230V	£282.50

Warmup gets over hundreds Water quotes a month, and a lot of these require a qualified installer to finish the job to Warmup's high standards.

Apply to join our Hydro Quote Referral Network today to get new business from Warmup, **completely free of charge.**





Warmup® Water Underfloor Heating Systems

Warmup® offers you a complete bespoke solution. Warmup® water heating systems come designed and supplied with a full set of high quality components and controls ready for installation. Systems are available in a number of configurations and components guaranteed to perfectly match your project and budget.

Warmup systems come with a choice of 3 pipe types; PEX-A, PE-RT and PE-RT/AL/PE-RT. This choice guarantees that you have the best possible system, tailored to your specific installation and budget.

Warmup® PEX-A Water pipe carries a **Lifetime Warranty for greater peace of mind**. All other pipes carry a 50 year Warranty.

Our unique SafetyNet™ Installation Guarantee means that should you accidentally damage the pipe on site, **Warmup will exchange it free of charge**.

SAFETYNet™
Installation-Guarantee

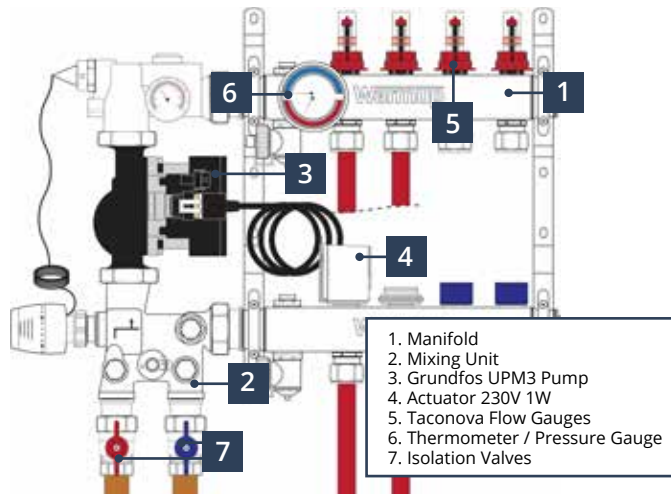


Flooring Types	Screed and Concrete Floors	Timber Suspended and Batten Floors	VLo Ultra-12
Page Number	100 – 107	108 – 113	94 – 95
Tile & Stone	✓	✓	✓
Hardwood	✓	✓	✓
Carpet	✓	✓	✓
Laminate	✓	✓	✓
Vinyl	✓	✓	✓



Warmup® S3 Manifold

The new market leading S3 Manifold by Warmup® is so named because it is built from one piece of seamless Stainless Steel. The new design features significant quality and efficiency developments, raising the benchmark for manifolds in the underfloor heating market.



1. Manifold
2. Mixing Unit
3. Grundfos UPM3 Pump
4. Actuator 230V 1W
5. Taconova Flow Gauges
6. Thermometer / Pressure Gauge
7. Isolation Valves

Features

Manifold Technical Data

High quality single piece stainless steel construction

Material: 304 Grade Stainless Steel

Dual temperature/pressure gauge drastically decreases setup time

Ports Available: 2 - 12

Accurate, reliable and easy to use flow gauges from Taconova

Mixing Temperature: 20°C to 60°C

3/4" Fill/drain valves fit standard tap connectors for easy commissioning

Max Operating Pressure: 6 Bar

The most energy-efficient actuators on the market

Max Test Pressure: 10 Bar

True 3 way mixing unit, with adjustable primary and secondary bypasses

Flow Gauge Scale: 0 - 5 l/min

Mixing unit compatible with traditional boilers, heat pumps and much more

Measuring Accuracy: ±10%

Latest Grundfos UPM3 'whisper quiet' circulator exceeds Ecodesign requirements

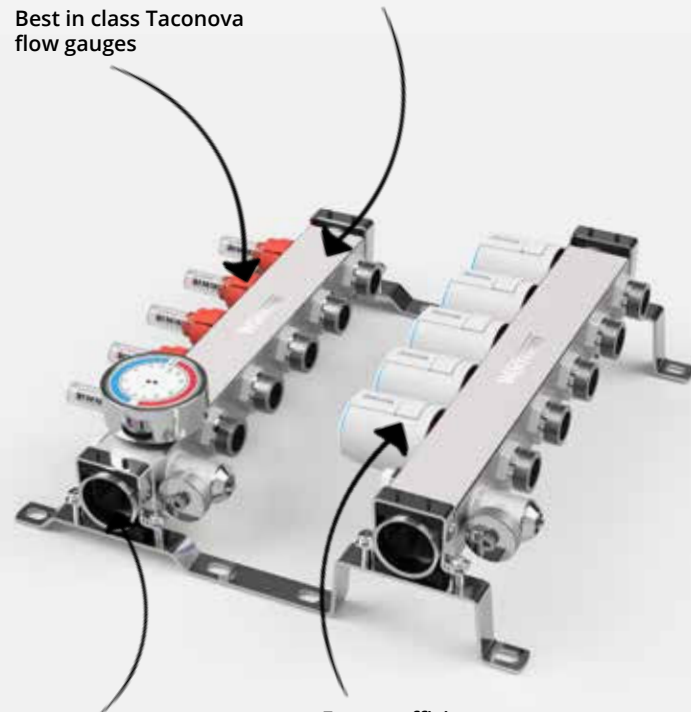
Port Centres: 50mm

Mixing control from 20°C to 60°C allowing screeds to be commissioned correctly and easily

Standard Pipe Fittings: 12x2mm and 16x2mm

304 Grade High Quality Stainless Steel

Best in class Taconova flow gauges



3/4" Fill/drain valves for easy commissioning

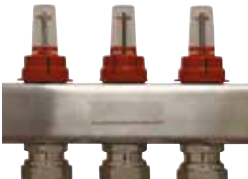
Energy-efficient actuators

Warmup S3 System

Excellent engineering - where it is most needed

The heart of the Warmup Water floor heating system is now comprised of all top of the range components; the seamless stainless steel S3 manifold, Taconova flow gauges, thermometer/ pressure gauge, energy efficient S3 actuator and the S3 mixing unit complete with the whisper quiet Grundfos UPM3 Pump.

Warmup S3 Taconova Flow Gauges



These strong and robust gauges are some of the most reliable flow meters on the market. They reduce pressure losses and increase performance.

Warmup S3 Thermometer / Pressure Gauge




Pressure testing is made easier as the gauge is mounted directly on the manifold, saving installation time when multiple manifolds are being used.


Warmup S3 Manifolds

Code	Description	Price (Excl. 20% VAT)
WHS-M-S3-02	2 port manifold	£108.69
WHS-M-S3-03	3 port manifold	£145.62
WHS-M-S3-04	4 port manifold	£165.43
WHS-M-S3-05	5 port manifold	£185.22
WHS-M-S3-06	6 port manifold	£207.38
WHS-M-S3-07	7 port manifold	£227.18
WHS-M-S3-08	8 port manifold	£246.97
WHS-M-S3-09	9 port manifold	£273.83
WHS-M-S3-10	10 port manifold	£288.92
WHS-M-S3-11	11 port manifold	£306.36
WHS-M-S3-12	12 port manifold	£329.30

Warmup S3 Actuator 230V 1W

Information	Actuator Technical Data
 <p>The new Warmup S3 actuator uses less than half the energy of a typical actuator currently in use in the UK.</p>	Operating Voltage: 220-240V AC 50/60Hz
	Operating Temperature: 0 to 60°C
	Power: 1W
	De-energized Position: Normally Closed
	Inrush Current: max. 550 mA
	Stroke: 4mm
	IP Rating: IP54
	Storage Temperature: -25 to 60°C

Warmup S3 Mixing Unit

Information	Grundfos UPM3 Technical Data
 <p>This top of the range 'whisper quiet' mixing unit is set at a constant pressure curve, so circuits are balanced automatically as zones open and close. Having a built-in pump isolating valve means that there is no need to drain the entire system in the event of pump replacement.</p>	Operating Voltage: 230 V AC: 50H
	Connections: G1 1/2
	Weight: 1.9 (kg)
	System Pressure: Max. 1.0 MPa (10Bar)
	Minimum Inlet Pressure: 0.05MPa (0.50bar) at 95°C liquid temperature
	Liquid Temperature: +2°C to +110°C (TF110)
	Enclosure Class: IP44 (non-condensing) K: IPx4D (condensing)
	Motor Protection: No external protection needed
Approval and Marking: VDE, CE	

Warmup S3 Manifold Ancillaries

Code	Description	Price (Excl. 20% VAT)
WHS-P-CONNECT	16mm x 2mm Pipe Connector	£2.14
ACC-CONNECT12x1.6	12mm x 2mm Pipe Connector	£2.14
WHS-M-S3-ACT230	230V Actuator	£20.95
WHS-M-S3-VALVES	Manifold valve kit - 1" isolating valve pair, 1" unions and 22mm compression fittings	£31.87
WHS-M-S3-MIX	Mixing Unit	£340.79



Warmup® VLo Nexxa-12 Low Profile UFH Membrane

NEW

*Quick
to install,
concrete and
timber floor system.*

Warmup's VLo Nexxa-12 Castellated System is a low-profile wet underfloor heating solution with a modular, castellated membrane that offers a rapid installation in renovation projects.

The VLo Nexxa-12 is a low profile wet underfloor heating system, designed for new-build and refurbishment projects where a low floor build-up is required.

Allowing quick installation times, the Nexxa-12 is a modular system which bonds directly to a smoothed and primed subfloor.

With fast response times and excellent heat output (70W/m² for timber floors at 40°C water temperature), the VLo Nexxa-12 System utilises Warmup's 12mm PERT pipe and is suitable for use with all floor finishes.

Features

Easy to use self-adhesive membrane

Low build-up water UFH system (22mm) – Ideal for retrofit

Compatible with all floor finishes

Works with 10 and 12mm pipes

Variable heat output (50, 100, 150, 200mm spacing available).

Excellent heat-output with low water temperatures

SAFETY Net™
Installation-Guarantee



VLo Nexxa-12 Castellated System enables the most precise installation of underfloor heating within a floating screeded floor.

The system is designed for use with Warmup's 12mm PE-RT pipe, which is clipped into the membrane.

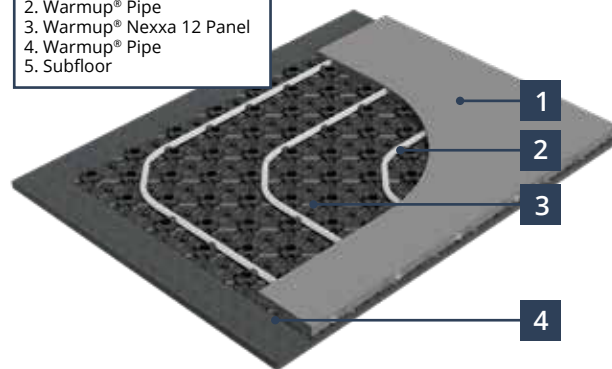
Installation Guide

(Refer to installation manual for complete instructions)

Water UFH easily installed in 3 simple steps:

1. Lay the lightweight self-adhesive membrane over your existing subfloor
2. Clip Warmup 12mm PE-RT pipe into the membrane to cover the required area
3. Pour compatible leveller - ready to lay your new floor finish

1. Screed
2. Warmup® Pipe
3. Warmup® Nexxa 12 Panel
4. Warmup® Pipe
5. Subfloor





Warmup® VLo Ultra-12 Low Build System

*Simple
to install,
concrete and
timber floor
system.*

NEW

Launching October 2022

With its ultra-low-profile design that adds only 18mm to the floor build up, the VLo Ultra-12 is an ideal hydronic underfloor heating system for both renovation projects and off-plan installations. It utilises a modular design, allowing a quick and hassle-free installation in rooms of any size.

The VLo Ultra-12 is the market leading underfloor heating system for heat output. It features a recycled fleece decoupling layer on both the base and top of the Ultra-12 Low Build Panels. Once installed, a variety of floor finishes can be laid over the system including tiles which can be bonded directly to the Ultra-12 without the need for primer. It uses Warmup's new and improved 12mm PERT heating pipe and can work with both central-heating systems and heat pumps.

Features

Market leading heat output for any given water temperature

Low build-up - just 18mm

Recycled fleece decoupling layers - system can be tiled directly onto

Screedless installation

Suitable with all floor finishes

150µm diffuser for efficient heat spread

Durable and lightweight insulation

Can be used with heat pumps and central heating systems

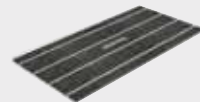
SAFETYNet™
Installation-Guarantee



System Components

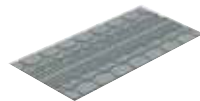
Straight Panel

Used wherever
UFH is required



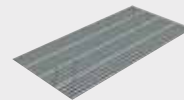
Curve Panel

Used at the end
of main panels to
turn around the
pipework



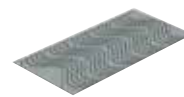
Straight Service
Panel

Used to feed the
pipework back to
manifold



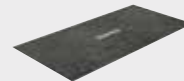
Curve Service
Panel

Used to feed the
pipework around
corners and
obstacles

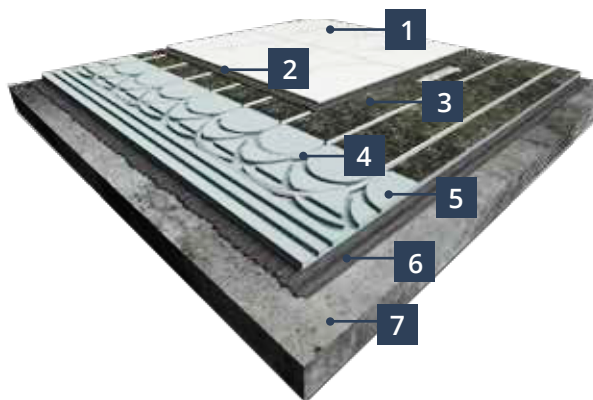


Plain Panel

Used for areas
where no UFH is
required



1. Floor Covering
2. Flexible Tile Adhesive
3. Ultra-12 Straight Panel
4. Warmup® 12mm PERT-Pipe
5. Ultra-12 Curve Panel
6. Flexible Tile Adhesive
7. Subfloor





Warmup® HydroPack Installation Kit



HydroPack is an easy-to-specify kit that comes with everything you need to install water underfloor heating. It is the ideal solution for small projects of 22m² or less (additional products available for larger rooms), providing a maximum heat output of up to 3kW. The kit includes the Warmup® 3iE thermostat, the PE-RT pipe plus all the components necessary to complete a successful underfloor heating installation in a few hours.

HydroPack allows you to quickly purchase and install a water system without the need to purchase each component separately. All the components are compatible and from a single source, packaged in one convenient kit for fast and easy installation.

You will need to ensure that the heat source has the sufficient capacity to supply sufficient energy for the HydroPack and other system requirements.

Features

Compact and lightweight modular installation kit, designed to be connected onto existing pipework

Everything you need in one handy kit for quick and easy installation

All components are compatible and from a single source for reliability

Ideal solution for small projects of 22m² or less, providing a maximum heat output up to 3kW

Carries a comprehensive warranty of fifty (50) years on the pipe. You also get Warmup's unique SafetyNet™ Installation Guarantee – this means should you accidentally damage the pipe on-site, Warmup will replace it free of charge

SAFETYNet™
Installation-Guarantee



HydroPack Kit Contents

The HydroPack Installation Kit is made up of



16mm x 120m PE-RT pipe



Single room 'A' rated energy efficient circulating pump/mixer control unit



Compression fittings x2



Pipe clips x600



Pipe cutter



Installation Instructions

Pump/mixing unit

Technical Specification

Compact bolt-on unit provides quick and easy installation

Easy to set-up with an adjustable temperature range of 35 °C to 65 °C

Delivers controlled mixed temperature water to the underfloor heating system with heat output of up to 3kW

Controls flow temperature to +/- 2 °C with changing boiler flow and return temperature

Maximum Static Pressure: 10 bar

Maximum Temperature: 90 °C

Adjustable Control Range: 35 to 65 °C

Factory Pre-set: 35 °C (Minimum setting)

Fail Safe Feature



Installation Guide

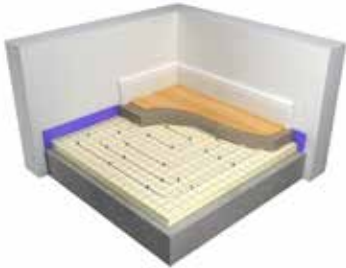
(Refer to installation manual for complete instructions)

Before commencing installation, ensure the insulation is laid on a clean and level subfloor. A perimeter strip or edge insulation will need to be laid around the perimeter of the room. The insulation should conform to building regulations or practices and laid as per manufacturers instructions.

The compact control and pump unit should be wall mounted in a vertical position on a suitable wall. Choose a suitable & solid mounting location, ensuring adequate clearance for primary and underfloor heating pipework and accessibility of the control unit.

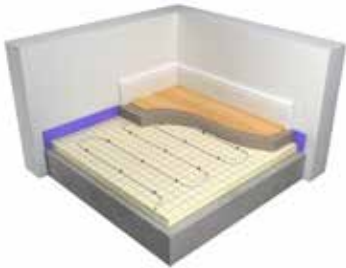
Begin to unwrap and uncoil the pipe from the inside centre of the coil, cut the end off with the cutters to leave a neat square cut, but leaving a rounded pipe (i.e. not compressed). Once the pipe has gone through the compression fitting, insert the pipe into the flow from the mixer pump assembly for the underfloor heating. Refer to installation instructions.

Once connected, begin laying the pipework around the room using the preferred pipe pattern (see examples below). Take care to turn the coil of pipe as you uncoil it to relieve tension and staple the pipe using the pipe clips provided into the insulation. An allowance of 5 clips per linear metre of pipe has been included. However less clips may be required on the straight runs and more required on the loops.



Spiral pipe layout

(for rectangular shaped rooms where even spread of heat is required)



Serpentine pipe layout

(for odd shaped or specific-heat areas, i.e. to concentrate flow near windows or doors)

Once the pipework has been laid, work out where to cut the pipe for the final connections to the pump/mixer kit. Insert into the final compression fitting and connect to the pump/mixer valve.

Tighten the compression fittings.

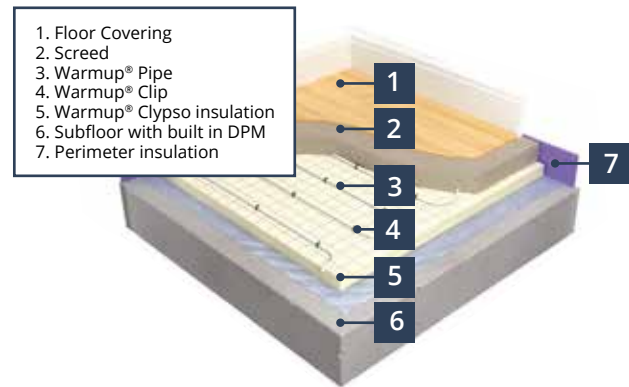
First the pipework will need to be filled and flushed with fresh cold water from the mains supply. Connect your hose to the flow side of the mixing valve that will be connected to the main flow from the heating system. Connect a hose to the return side of the mixing valve, that will flow back to the heat source for reheating. Place the mains water supply and flush through with the mains water until no air bubbles can be seen in the discharge of water.

Using a pressure testing kit (available for hire from your local plant/test hire or purchase from your local plumbers merchant), connect to the red valve and open. Build the pressure up to 6 Bar and hold for 1 hour. Once the test is complete then the system needs to be left under pressure during the screeding process. At least 2 Bar pressure is recommended for the process. This way if the pipework is damaged a leak and drop in pressure will be shown, then remedial repair work can take place as required.

Once the system has been installed and pressure tested it should be protected by laying the floor screed as soon as possible.

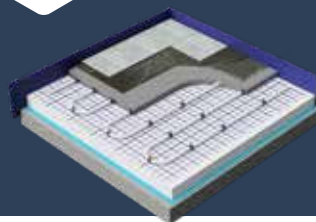
Completing the job

If using a standard sand/cement screed, a thickness of between 65mm & 75mm on top of the insulation is recommended. The screed & screeding works must comply with current Building Regulations and attention must be paid to the curing times. Under no circumstances should the underfloor heating system be used to force curing of the screed. The mixing valve on the control pack should be set to the minimum temperature when commissioning commences after the screed has cured as per manufacturers instructions. Run with the heat on continuously for 3 days, after this a steady increase of 2 - 3°C per day can be adopted up to the desired working temperature. Then run for a further 4 days at this temperature. Ensure relative humidity of the screed is correct before laying floor finishes.





Warmup® Clypso System



Screed and Concrete Floors

The Clypso System uses plastic clips to secure the underfloor heating pipe to laminated insulation panels. The panels are constructed from either PIR (polyisocyanurate) or expanded polystyrene insulation with a fabric reinforced foil laminated to their surface. The foil on each panel comes with two flaps, for taping to the adjoining panel, thereby increasing water resistance and separating the insulation layer from the wet screed.

The laminated foil is printed with a grid pattern to make consistent pipe-spacing easier for the installer, especially when required to work around obstacles or a spiral installation pattern.

Insulation must comply with Building Regulations in force at the time of approval and BS/EN1264.

The Clypso System is suitable for almost any floor finish and in particular where the flooring (wood, carpet or vinyl) may be replaced from time to time.

Insulation Features

The insulation is lined in 50mm grids to assist the installer in quickly placing the pipes in the correct design format and helps speed-up the installation process.

The Insulation fabric reinforced foil layer is woven to deliver extra security for retention of the pipe. This also makes it easier to install and provides additional protection against damage to the pipe prior to screed being laid.

Various compressive strengths are available, which safely allows the floor build-up to take imposed loads without damaging the integrity of the floor.

SAFETY Net™
Installation-Guarantee



Installation Guide

(Refer to installation manual for complete instructions)

Make a layout plan of your floor area by measuring your room and then subtract any fixtures (such as baths and cupboards).

Ensure the installation area is dry and sealed to the elements and that you have a level floor surface. If installation is to take place onto a concrete base, install Warmup's polyethylene damp proof membrane and assess whether supplementary insulation is required before installing a perimeter insulation to prevent heat loss. This allows for some subfloor expansion due to temperature changes.

Although insulation is an integral part of the Clypso System, it may not fully comply with Building Regulations for new-build projects; additional insulation may be required depending on the existing subfloor construction.

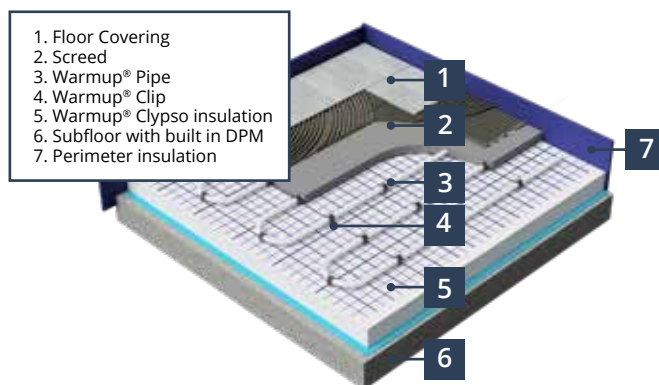
The Clypso Insulation panels are then installed, covering the entire floor area providing an insulated surface for pipe installation. Once the Insulation panels are in place and the overlapping foil is taped down, the Warmup pipe circuits can be installed using a purpose-built clip gun and Warmup clips. The pipe is then fixed into place on the Clypso Insulation panels according to a predesigned pattern.

Before pouring the screed, attach the pipe to the manifold and pressure test it to ensure the system is working correctly. The system should be left under pressure until the flooring process is complete.

Completing the job

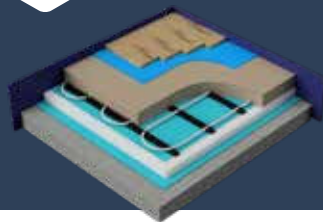
Once the system has been tested, the screed should be laid over the system as soon as possible to prevent damage to the pipe and to allow the drying process to begin. The screed must be allowed to dry naturally until full strength is reached before turning on the underfloor heating, unless the screed manufacturer's instructions say otherwise.

The heating system is then turned on, gradually increasing the temperature of the floor over a number of days until the desired temperature is reached. Turning on the system too early or too high will dry the screed too quickly, damaging the screed. Underfloor heating and screed commissioning must take place as per manufacturer's instructions and **British Standards**.





Warmup® Metro Rail System



*Screed and
Concrete
Floors*

The Metro Rail System uses pre-moulded retention clips. The rail is located on top of the insulation layer and is separated by a plastic membrane. The Metro Rail System allows pipes to be spaced as close as 50mm. The system holds the pipework in place until the screed is applied.

It is suitable for almost any floor finish and in particular where the flooring (wood, carpet or vinyl) may be replaced from time to time.

Features

Designed to allow quick and easy installation - the rail provides guidance on how to install the pipework quickly and at the correct design spacing levels.

Holds the pipe at the correct level prior to screeding to ensure there are no hot spots.

SAFETYNet™
Installation-Guarantee



Installation Guide

(Refer to installation manual for complete instructions)

Make a layout plan of your floor area by measuring your room and then subtract any fixtures (such as baths and cupboards).

Ensure the installation area is dry and sealed to the elements and that you have a level floor surface. If installation is to take place onto a concrete base, install Warmup's polyethylene damp proof membrane and assess whether supplementary insulation is required before installing a perimeter insulation to prevent heat loss. This allows for some subfloor expansion due to temperature changes. Although insulation is an integral part of the Metro Rail System, it may not fully comply with Building Regulations for new-build projects; additional insulation may be required depending on the existing subfloor construction.

The Insulation panels are then laid and fixed to the subfloor throughout the room and covered with a plastic membrane before installing the Metro Rail system on top. The Metro Rails are held in place using either an adhesive backing or by integrated fixing pins depending on the insulation system used.

When the Metro Rail system is firmly fixed in place, the pipe is then laid according to a predesigned pattern.

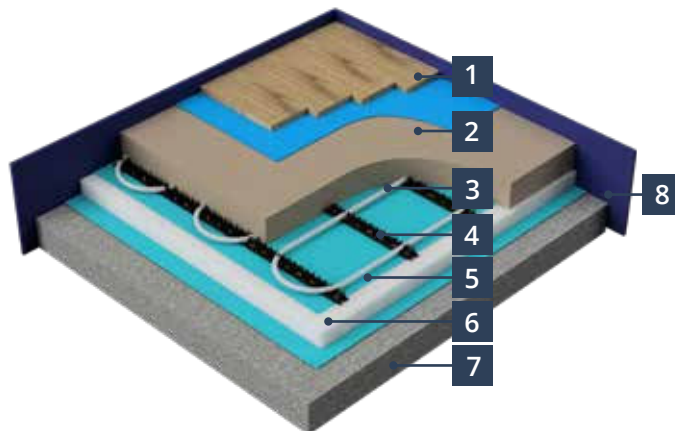
Once installed, attach the pipe to the manifold and pressure test to ensure the system is working correctly. The system should be left under pressure until the flooring process is complete.

Completing the job

Once the system has been tested, the screed should be laid over the system as soon as possible to prevent damage to the pipe and to allow the drying process to begin. The screed must be allowed to dry naturally until full strength is reached before turning on the underfloor heating, unless the screed manufacturer's instructions say otherwise.

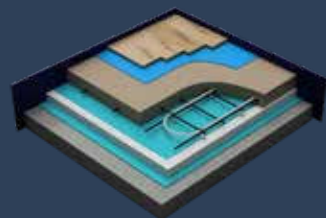
The heating system is then turned on, gradually increasing the temperature of the floor over a number of days until the desired temperature is reached. Turning on the system too early or too high will dry the screed out too quickly, damaging it. Underfloor heating and screed commissioning must take place as per manufacturer's instructions and British Standards.

1. Floor Covering
2. Screed
3. Warmup® Pipe
4. Warmup® Metro Rail
5. Plastic Membrane
6. Insulation
7. Subfloor with built in DPM
8. Perimeter Insulation





Warmup® Forte Grid System



Screed and Concrete Floors

The Forte Grid System is designed for installation into load-bearing structural floors.

The Forte Grid System incorporates wire grids to which the underfloor heating pipework is attached using cable ties.

The Forte Grid System is either located within a concrete or structural screed, but is suitable for almost any floor finish, in particular where the flooring is for a commercial application, such as epoxy paint or resin.

Features

Pipework is fastened to the reinforced bars without impacting the integrity of the floor.

To ensure the most heat responsive floor, the pipe can be installed in the centre of the concrete zone.

SAFETYNet™
Installation-Guarantee



Installation Guide

(Refer to installation manual for complete instructions)

Make a layout plan of your floor area by measuring your room and then subtract any fixtures (such as baths and cupboards).

Ensure the installation area is dry and sealed to the elements and that you have a level floor surface. If installation is to take place onto a concrete base, install Warmup's polyethylene damp proof membrane and assess whether supplementary insulation is required before installing a perimeter insulation to prevent heat loss. This allows for some subfloor expansion due to temperature changes. Warmup® insulation panels are an integral part of the Tella Grid System, however, for new-build projects, additional

insulation may be required to comply with building regulations, depending on the existing subfloor construction.

The Insulation boards are then laid over a compacted level bed of hardcore and fixed to the subfloor throughout the room before being covered with a plastic membrane.

The Forte Grids are then laid over the plastic membrane.

Warmup's heating pipe is then laid out according to a predesigned pattern, with the pipe being secured to the Forte Grid with plastic cable ties.

In some cases, an additional structural reinforcement grid can be added above the pipe for additional strength. This additional grid will normally be laid on castles to ensure the mesh is at the correct height ready for the screeding process.

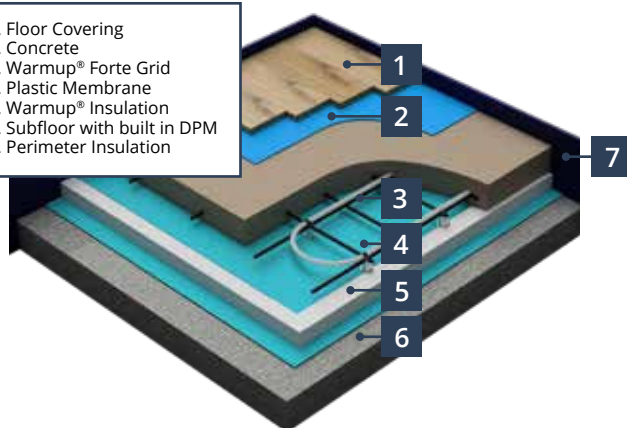
Once installed, attach the pipe to the manifold and pressure test to ensure the system is working correctly; it should be left under pressure until the flooring process is complete.

Completing the job

Once the system has been tested, the screed should be laid over the system as soon as possible to prevent damage to the pipe and to allow the drying process to begin. The screed must be allowed to dry naturally until full strength is reached before turning on the underfloor heating, unless the screed manufacturer's instructions say otherwise.

The heating system is then turned on, gradually increasing the temperature of the floor over a number of days until the desired temperature is reached. Turning on the system too early or too high will dry the screed too quickly, damaging the screed. Underfloor heating and screed commissioning must take place as per manufacturer's instructions and British Standards.

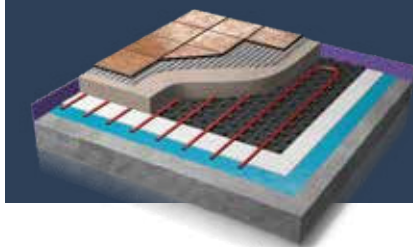
1. Floor Covering
2. Concrete
3. Warmup® Forte Grid
4. Plastic Membrane
5. Warmup® Insulation
6. Subfloor with built in DPM
7. Perimeter Insulation





Warmup® Nexxa Panel System

Screed and Concrete Floors



The Nexxa Panel System is used primarily where there are floor build-up issues to deal with. It can substantially reduce the overall build-up of the floor structure.

Warmup® system plates are interlocking vacuum formed sheets of plastic, incorporating pipe-locating castles.

Additional insulation may be required to meet the Building Regulations. The edges are over-lapped by 75mm, inter-locking them to form a continuous layer.

The Nexxa Panel System is suitable for almost any floor finish and in particular where the flooring (wood, carpet or vinyl) may be replaced from time to time.

Features

The Nexxa panel has a low build up of just 30mm including the 20mm castellation. This makes it ideal for refurbishments or new build where a low build up floor is required.

Retains pipework prior to screeding.

Self-retaining system, no clips required.

SAFETY Net™
Installation-Guarantee



Installation Guide

(Refer to installation manual for complete instructions)

Make a layout plan of your floor area by measuring your room and then subtract any fixtures (such as baths and cupboards).

Ensure the installation area is dry and sealed to the elements and that you have a level floor surface. If the installation is to

take place on a concrete base, install Warmup's polyethylene damp proof membrane and assess whether supplementary insulation is required before installing a perimeter insulation to prevent heat loss. This allows for some subfloor expansion due to temperature changes. Although insulation is an integral part of the Nexxa Panel System, it may not fully comply with Building Regulations for new-build projects; additional insulation may be required, depending on the existing subfloor construction.

The Nexxa Panels should be laid to have the edges overlapping by 75mm and interlocking with each new panel, creating a continuous layer.

Warmup's heating pipe is then laid out according to a predesigned pattern, ensuring that the pipe is firmly clipped down in each panel.

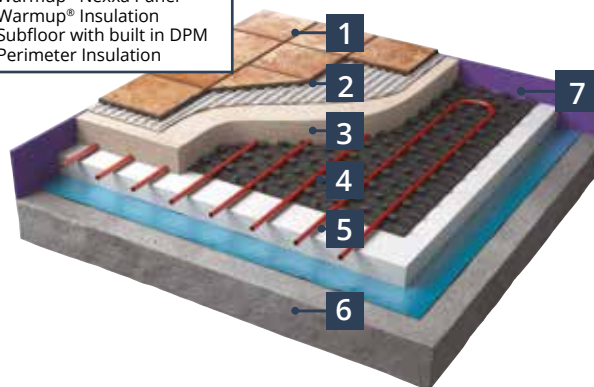
Once installed, attach the pipe to the manifold and conduct a pressure test to ensure the system is working correctly. The system should be left under pressure until the flooring process is complete.

Completing the job

Once the system has been tested, the screed should be laid over the system as soon as possible to prevent damage to the pipe and to allow the drying process to begin.

The heating system is then turned on, gradually increasing the temperature of the floor over a number of days until the desired temperature is reached. Turning on the system too early or too high will dry the screed too quickly, damaging the screed. Underfloor heating and screed commissioning must take place as per manufacturer's instructions and British Standards.

1. Floor Covering
2. Screed
3. Warmup® Pipe
4. Warmup® Nexxa Panel
5. Warmup® Insulation
6. Subfloor with built in DPM
7. Perimeter Insulation





Warmup® VLO Econna-12 Joisted Floor System

*Fast to install
water UFH system
for joisted and
battened floors
with an updated
design.*

NEW



The VLO Econna-12 Joisted Floor System is a newly updated wet UFH system that has been developed for use with battened or joisted floors.

It utilises the space between timber joists for accompanying insulation material which also allows room for other plumbing and electrical services – making it perfect for both new-build projects or period home renovations. The profiled 22mm thick chipboard panels can be installed over battens or joists with spacings of up to 600mm centres.

Features

No screeding required

One universal panel type – allows for a rapid installation

Built-in diffusion layer for even heat distribution

SAFETY Net™
Installation-Guarantee



Installation Guide

(Refer to installation manual for complete instructions)

Make a layout plan of your floor area by measuring your room and then subtract any fixtures (such as baths and cupboards).

Before commencing installation, assess whether supplementary insulation is required. Although insulation is an integral part of the Econna System, it may not fully comply with Building Regulations for new-build projects; additional insulation may be required, depending on the existing subfloor construction.

Rigid insulation of the required depth is placed between the joists before laying the Econna routed flooring layer. The Econna routed flooring layer is then screwed to the joists avoiding the pre-routed grooves.

Warmup aluminium diffusion plates are then laid on top of the Econna routed flooring layer in the straight grooves only, leaving the return grooves bare.

The Warmup Pipe is then fitted into the Diffusion Plate and Econna Routed grooves according to a predesigned pattern.

Once installed, attach the pipe to the manifold and conduct as pressure test to ensure the system is working correctly; it should be left under pressure until the flooring process is complete.

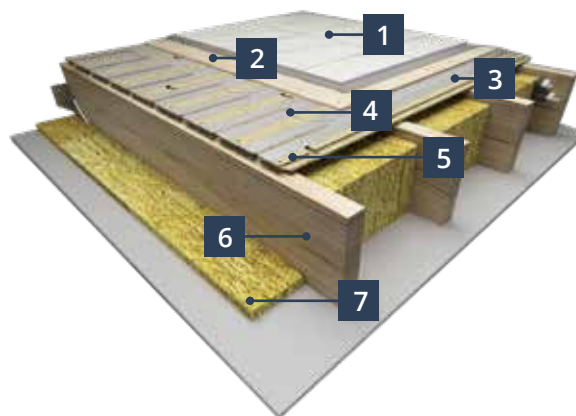
Completing the job

Once the system has been tested, the final flooring should be laid over the system as soon as possible to prevent damage to the pipe.

The heating system is then turned on, gradually increasing the temperature of the floor over a number of days until the desired temperature is reached. Turning on the system too early or too high will damage the flooring.

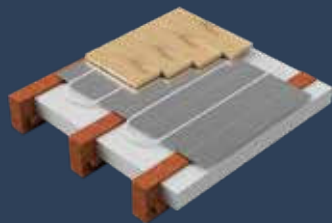
Design parameters should not be exceeded and specific manufacturer's information should be adhered to.

1. Floor Covering (18mm minimum)
2. Optional Thin Wood Floor Underlay
3. Warmup® Diffusion Plate
4. Warmup® Pipe
5. Warmup® Econna Routed Flooring
6. Joists
7. Insulation





Warmup® Tectora Joisted Batten Floor System



*Timber
Suspended
and Batten
Floors*

The Tectora Joisted Batten Floor System is particularly suitable where there is a sprung/cradled battened floor or floor joists. It can be used in battened installations over a concrete subfloor, variable height floor battens are employed to create a void of between 50 -100mm.

The batons can be sprung or on cradles to create an acoustic floor.

For this installation, a diffusion plate system is generally used if standard installation types are not suitable.

For installing as a joisted system, the rigid insulation is placed between the joists to support the diffusion plates, as they span the joists.

The Tectora Joisted Batten Floor System is suitable for almost any floor finish, in particular wood or engineered wood.

Features

Diffusion plates spread heat efficiently without increasing floor build-up

System promotes fast heat-up response times

No screeding required

SAFETYNet™
Installation-Guarantee



Installation Guide

(Refer to installation manual for complete instructions)

Make a layout plan of your floor area by measuring your room and then subtract any fixtures (such as baths and cupboards). Required battens to support the insulation will need to be designed

and installed by the flooring contractor and co-ordinated with the installer of the Tectora System.

Ensure the installation area is dry, sealed to the elements and that you have a level floor surface. If installation is to take place onto a concrete base, install Warmup's polyethylene damp proof membrane. You should assess whether supplementary insulation is required before installing a perimeter insulation to prevent heat loss, allowing for some subfloor expansion due to temperature changes. Although insulation is an integral part of the Tectora System it may not fully comply with Building Regulations for new-build projects; additional insulation may be required, depending on the existing subfloor construction.

Rigid insulation of the required depth is placed between the preinstalled battens before fixing the Tectora diffusion plates to the battens with screws. The Warmup® pipe is then fitted into the Tectora diffusion plates groove according to a predesigned pattern. Once installed, attach the pipe to the manifold and pressure test to ensure the system is working correctly; it should be left under pressure until the flooring process is complete.

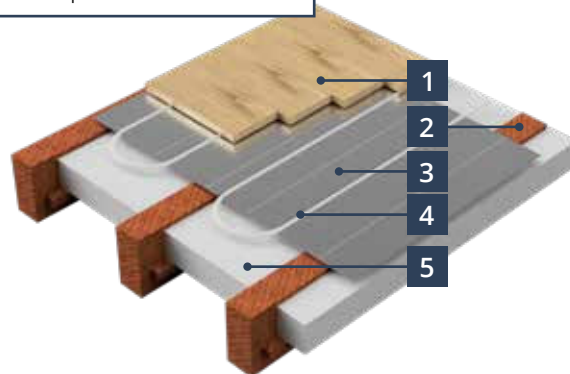
Completing the job

Once the system has been tested, the final flooring should be laid over the system as soon as possible to prevent damage to the pipe.

The heating system is then turned on, gradually increasing the temperature of the floor over a number of days until the desired temperature is reached. Turning on the system too early or too high will damage the flooring.

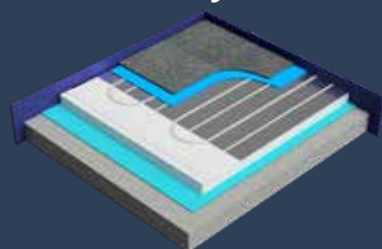
Design parameters should not be exceeded and specific manufacturer's information should be adhered to.

1. Floor Covering
2. Battens
3. Warmup® Tectora Diffusion Plates
4. Warmup® Pipe
5. Warmup® Insulation





Warmup® Contura Floating Floor System



*Timber
Suspended
and Batten
Floors*

The Contura Floating Floor System (combines preformed insulation and diffusion plates) is used where heating is installed onto a concrete or solid wooden subfloor but where a dry finish is used in place of a standard screed covering.

This system typically has a lower wattage per square metre output (75w/m²) compared to traditional screeded floors.

It is used primarily in new build on upper floors where insulation levels are higher, lowering the heat requirements.

It is suitable in refurbishment projects where sufficiently increased levels of insulation is applied. It can be installed under almost any floor finish, in particular engineered wood and composite laminate wood.

Features

Comprehensive choice of board strengths and thickness available to match individual requirements

Overlay system requires no screeding

System promotes fast heat-up response times

SAFETYNet™
Installation-Guarantee



Installation Guide

(Refer to installation manual for complete instructions)

Make a layout plan of your floor area by measuring your room and then subtract any fixtures (such as baths and cupboards).

Ensure the installation area is dry and sealed to the elements and that you have a level floor surface. As the Contura Floating

Floor System is installed directly onto a concrete base, install Warmup's polyethylene damp proof membrane, assess whether supplementary insulation is required. Insulation is an integral part of the Contura System, but may not fully comply with Building Regulations for new-build projects; additional insulation may be required, depending on the existing subfloor construction.

Lay the Contura Insulation directly onto the concrete subfloor before fitting Warmup's diffusion plates in the straight grooves of the insulation only, leaving the return grooves clear.

Carefully insert the Warmup® pipe into the pre-moulded Contura grooves according to a predesigned pattern until your desired heated area is covered.

Once installed, attach the pipe to the manifold and pressure test to ensure the system is working correctly; it should be left under pressure until the flooring process is complete.

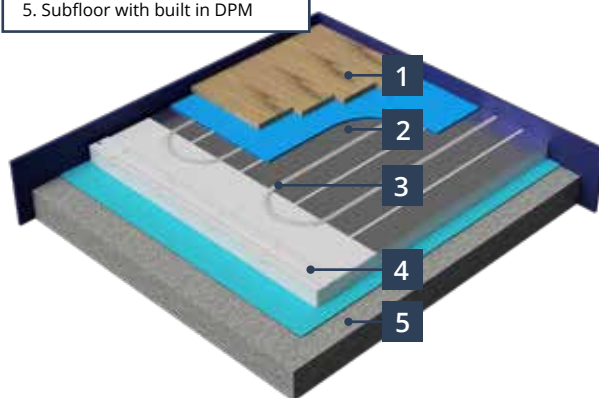
Completing the job

Once the system has been tested, the final flooring should be laid over the system as soon as possible to prevent damage to the pipe.

The heating system is then turned on, gradually increasing the temperature of the floor over a number of days until the desired temperature is reached. Turning on the system too early or too high will damage the flooring.

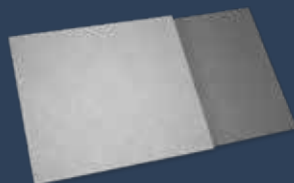
Design parameters should not be exceeded. Manufacturer's instructions must be followed.

1. Floor Covering
2. Warmup® Diffusion Plate
3. Warmup® Pipe
4. Warmup® Contoured Insulation
5. Subfloor with built in DPM





Warmup® Dual Overlay Concrete



Screed Replacement Board

Dual Overlay Concrete is a fast track floor preparation system for use as a screed replacement system which can be installed over the Econna, Contura and Total-16 water systems. It is suitable for installation under many floor coverings such as tiles, wood and resilient floors.

Installation is quick, clean and dry making it an easier option for installers. The low heat resistance allows heat to pass through the floor finish without any reduction to the efficiency, evenly distributing the heat and alleviating any hot spots.

Dual Overlay Concrete consists of a base and top board. Both boards are provided with contact adhesive, bonding them together to make one solid subfloor.

Features

- Provides a stable subfloor on which a variety of floor coverings can be laid
- Suitable for our Econna & Contura water underfloor heating systems
- Installation is quick and easy
- Provides even heat distribution

Technical Data

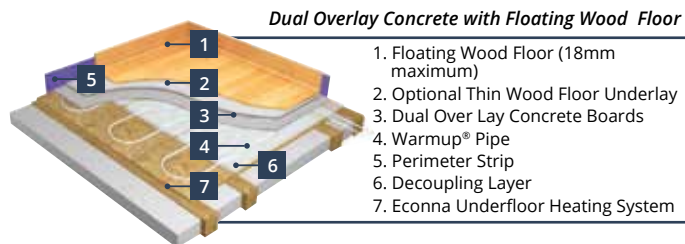
Size	1,200mm x 600mm
Thickness	2 x 6mm
Composition	Cement, Silica (quartz), Cellulose and filling material, fitted with an interactive adhesive
Weight per panel (kg)	7.5
Weight per m ² (kg)	21
Tog	0.4
Thermal Rm value (m ² .K.W.-1)	0.038
Fire Class	EN 13501: 2007 B _{fl,s1}

Installation Guide

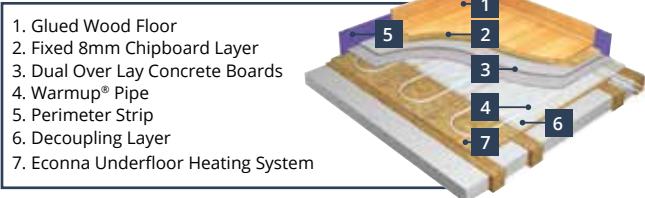
(Refer to installation manual for complete instructions)

The Warmup® Dual Overlay is comprised of a 6mm deep cement bottom board and 6mm deep cement top board. The bottom and top layers are laid out with staggered joints and arranged so that the top boards overlap the joints in the base boards. The Warmup® Water Heating System lays below a decoupling layer and the Dual Overlay Concrete System. This method of installation provides a stable surface for the floor finish to rest on and avoid any joints showing through the final floor finish. Finally, the floor finish can either be glued to the boards as a final layer or simply laid freely upon them.

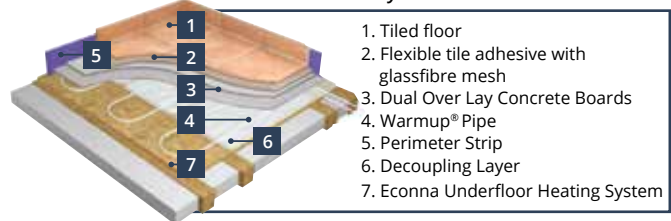
Floor Cutaway - Based on Econna Installation



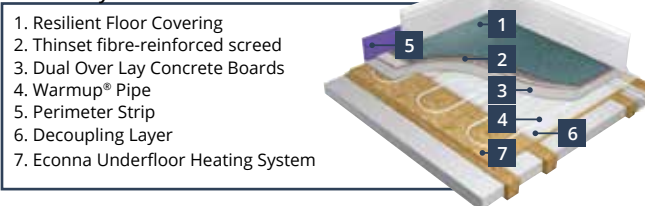
Dual Overlay Concrete with Glued Wood Floor



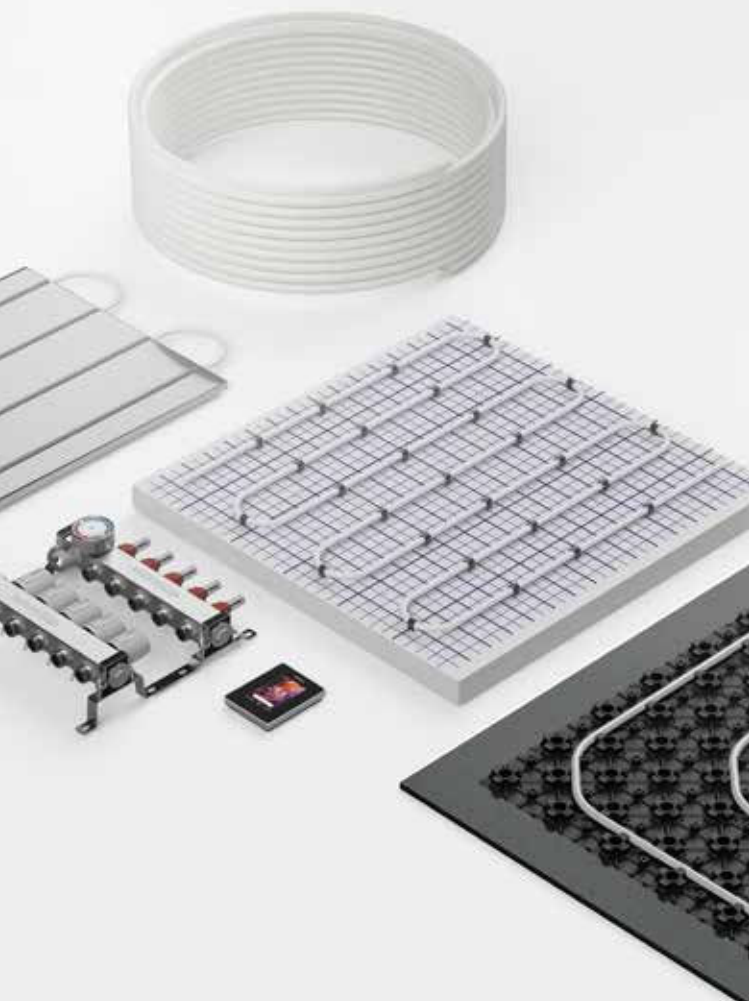
Dual Overlay Concrete with Tiled Floor



Dual Overlay Concrete with Resilient Floor




Price Guide




Warmup® HydroPack

WARMUP HYDROPACK INSTALLATION KIT


	CODE	DESCRIPTION	Price (Excl. 20% VAT)	PACK QTY
	WHS-HYDRO PACK-22	HydroPack Installation Kit for projects up to 22m²	£851.69	1

A RATED SINGLE ROOM / ZONE MANIFOLD WITH PUMP / MIXING UNIT


	CODE	DESCRIPTION	Price (Excl. 20% VAT)	PACK QTY
	MFD-RM01-12	A Rated Single Room / Zone Manifold with Pump / Mixing unit	£491.70	1

Warmup® Thermostats


6iE SMART WIFI THERMOSTAT

	CODE	DESCRIPTION	PRICE (EXCL. 20% VAT)
	6iE WIFI OB	Onyx Black Smart WiFi Thermostat	£149.46
	6iE WIFI BP	Bright Porcelain Smart WiFi Thermostat	£149.46

ELEMENT WIFI THERMOSTAT


	CODE	DESCRIPTION	PRICE (EXCL. 20% VAT)
	ELM-01-OB-DC	Warmup Element WiFi Dark Thermostat (Band Colour: Dark Chrome)	£112.50
	ELM-01-WH-RG	Warmup Element WiFi Light Thermostat (Band Colour: Rose Gold)	£112.50

TEMPO DIGITAL THERMOSTAT


	CODE	DESCRIPTION	Price (Excl. 20% VAT)	PACK QTY
	ELT PB	Tempo - Piano Black	£104.99	1
	ELT PW	Tempo - Porcelain White	£104.99	1

S Range Thermostats & Controls


DIGITAL ROOM THERMOSTAT FOR WATER SYSTEMS

	CODE	DESCRIPTION	Price (Excl. 20% VAT)	PACK QTY
	WHS-C-B-D230	Digital room thermostat for water systems	£61.04	1


230V DUAL TEMP THERMOSTAT FOR WATER SYSTEMS

	CODE	DESCRIPTION	Price (Excl. 20% VAT)	PACK QTY
	WHS-C-B-M230	230v Dual temp thermostat for water systems	£39.10	1


230V MASTER WIRING BOX 4 ZONE FOR WATER SYSTEMS

	CODE	DESCRIPTION	Price (Excl. 20% VAT)	PACK QTY
	WHS-C-B-MASTER01	230v Master wiring box 4 zone for water systems	£66.32	1

230V 4 ZONE SLAVE UNIT FOR WATER SYSTEMS

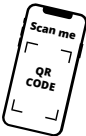
	CODE	DESCRIPTION	Price (Excl. 20% VAT)	PACK QTY
	WHS-S-SLV4Z	230V 4 zone slave unit for water systems	£63.00	1

230V 6 ZONE SLAVE UNIT FOR WATER SYSTEMS


	CODE	DESCRIPTION	Price (Excl. 20% VAT)	PACK QTY
	WHS-S-SLV6Z	230V 6 zone slave unit for water systems	£66.76	1

Getting a quote has never been so easy!






Get your quote today!




VLO NEXXA-12 PANEL

	CODE	DESCRIPTION	Price (Excl. 20% VAT)	PACK QTY
	RNX-PANEL	Warmup Peel&Stick Refurb Nexxa Panel - 1050x650mm	£9.98	1


VLO ULTRA-12 PANEL

	CODE	DESCRIPTION	Price (Excl. 20% VAT)	PACK QTY
	UK-WUK-HY- ULTRA12-CP- PANEL	VLo Ultra-12 Low Build System - Curve Panel - 150mm Centres - 500kPa XPS - 18mm x 600mm x 1200mm	£18.91	1
	UK-WUK-HY- ULTRA12-CS- PANEL	VLo Ultra-12 Low Build System - Curve Service Panel - 500kPa XPS - 18mm x 600mm x 1200mm	£18.91	1
	UK-WUK-HY- ULTRA12-PP- PANEL	VLo Ultra-12 Low Build System - Plain Panel - 500kPa XPS - 18mm x 600mm x 1200mm	£15.84	1
	UK-WUK-HY- ULTRA12-SP- PANEL	VLo Ultra-12 Low Build System - Straight Panel - 150mm Centres - 500kPa XPS - 18mm x 600mm x 1200mm	£28.65	1
	UK-WUK-HY- ULTRA12-SS- PANEL	VLo Ultra-12 Low Build System - Straight Service Panel - 500kPa XPS - 18mm x 600mm x 1200mm	£18.91	1

METRO / GENERAL INSULATION BOARD

	CODE	DESCRIPTION	Price (Excl. 20% VAT)	PACK QTY
	WHS- MT-B07025	Metro/General 25mm thickness insulation board, EPS 070, 2.4m x 1.2m (pack of 12)	£83.42	12
	WHS- MT-B07050	Metro/General 50mm thickness insulation board, EPS 070, 2.4m x 1.2m (pack of 6)	£83.42	6
	WHS- MT-B07075	Metro/General 75mm thickness insulation board, EPS 070, 2.4m x 1.2m (pack of 4)	£83.42	4
	WHS- MT-B07100	Metro/General 100mm thickness insulation board, EPS 070, 2.4m x 1.2m (pack of 3)	£83.42	3
	WHS- MT- B07025+	Metro/General 25mm thickness insulation board, EPS 070, 2.4m x 1.2m Premium range (pack of 12)	£180.06	12
	WHS- MT- B07050+	Metro/General 50mm thickness insulation board, EPS 070, 2.4m x 1.2m Premium range (pack of 6)	£180.06	6
	WHS- MT- B07075+	Metro/General 75mm thickness insulation board, EPS 070, 2.4m x 1.2m Premium range (pack of 4)	£180.06	4
	WHS- MT- B07100+	Metro/General 100mm thickness insulation board, EPS 070, 2.4m x 1.2m Premium range (pack of 3)	£180.06	3
	WHS- MT-B10025	Metro/General 25mm thickness insulation board, EPS 100, 2.4m x 1.2m (pack of 12)	£138.35	12

METRO / GENERAL INSULATION BOARD

	CODE	DESCRIPTION	Price (Excl. 20% VAT)	PACK QTY
	WHS- MT-B10050	Metro/General 50mm thickness insulation board, EPS 100, 2.4m x 1.2m (pack of 6)	£138.35	6
	WHS- MT-B10075	Metro/General 75mm thickness insulation board, EPS 100, 2.4m x 1.2m (pack of 4)	£138.35	4
	WHS- MT-B10100	Metro/General 100mm thickness insulation board, EPS 100, 2.4m x 1.2m (pack of 3)	£138.35	3
	WHS- MT-B10025+	Metro/General 25mm thickness insulation board, EPS 100, 2.4m x 1.2m Premium range (pack of 12)	£261.45	12
	WHS- MT-B10050+	Metro/General 50mm thickness insulation board, EPS 100, 2.4m x 1.2m Premium range (pack of 6)	£261.45	6
	WHS- MT-B10075+	Metro/General 75mm thickness insulation board, EPS 100, 2.4m x 1.2m Premium range (pack of 4)	£261.45	4
	WHS- MT-B10100+	Metro/General 100mm thickness insulation board, EPS 100, 2.4m x 1.2m Premium range (pack of 3)	£261.45	3

METRO / GENERAL INSULATION PIR

	CODE	DESCRIPTION	Price (Excl. 20% VAT)	PACK QTY
	WHS-MT-INS25	Metro/General 25mm Insulation PIR - 2.4 x 1.2m	£45.77	1
	WHS-MT-INS30	Metro/General 30mm Insulation PIR - 2.4 x 1.2m	£51.87	1
	WHS-MT-INS40	Metro/General 40mm Insulation PIR - 2.4 x 1.2m	£55.06	1
	WHS-MT-INS50	Metro/General 50mm Insulation PIR - 2.4 x 1.2m	£73.24	1
	WHS-MT-INS60	Metro/General 60mm Insulation PIR - 2.4 x 1.2m	£87.48	1
	WHS-MT-INS70	Metro/General 70mm Insulation PIR - 2.4 x 1.2m	£102.74	1
	WHS-MT-INS75	Metro/General 75mm Insulation PIR - 2.4 x 1.2m	£103.76	1
	WHS-MT-INS80	Metro/General 80mm Insulation PIR - 2.4 x 1.2m	£110.89	1
	WHS-MT-INS90	Metro/General 90mm Insulation PIR - 2.4 x 1.2m	£124.11	1
	WHS-MT-INS100	Metro/General 100mm Insulation PIR - 2.4 x 1.2m	£137.33	1


NEXXA PANEL INSULATION

	CODE	DESCRIPTION	Price (Excl. 20% VAT)	PACK QTY
	WHS-TL-ALU10	Nexxa Panel - 10mm EPS insulation - 30mm x 850mm x 1450mm	£12.25	1

VLO ECONNA-12 JOISTED FLOOR SYSTEM

	CODE	DESCRIPTION	Price (Excl. 20% VAT)	PACK QTY
	UK-WUK-HY-EC-PANEL	VLo Econna 12 - P5 grooved chipboard with built-in diffuser - 150mm Centres - 22mm x 600mm x 2400mm	£85.91	1


DIFFUSION PLATE 190 x 1000 x 0.5mm

	CODE	DESCRIPTION	Price (Excl. 20% VAT)	PACK QTY
	WHS-EC-PLT16	Diffusion plate 190 x 1000 x 0.5mm single channel (16mm pipe)	£4.68	1

PE-RT PIPE 12MM

	CODE	DESCRIPTION	Price (Excl. 20% VAT)	PACK QTY
	WHS-P-PERT-50	PE-RT 16mm x 2mm x 50m	£45.88	1
	WHS-P-PERT-60	PE-RT 16mm x 2mm x 60m	£55.37	1
	WHS-P-PERT-70	PE-RT 16mm x 2mm x 70m	£64.06	1


WATER BASED GLUE

	CODE	DESCRIPTION	Price (Excl. 20% VAT)	PACK QTY
	ACC-GLUE	15kg drum of wet-bed dispersion adhesive	£99.92	1

EUROCONE CONNECTORS

	CODE	DESCRIPTION	Price (Excl. 20% VAT)	PACK QTY
	ACC-CONNECT 12x1.6	Pipe Fitting - 3/4" Eurocone to 12x1.6mm Compression	£2.14	1

PIPE BEND SUPPORT FOR WATER SYSTEMS

	CODE	DESCRIPTION	Price (Excl. 20% VAT)	PACK QTY
	WHS-P-BEND12	Pipe bend support for 12mm pipes	£2.14	1
	WHS-P-BEND	Pipe bend support for 16mm pipes	£1.43	1

DUAL OVERLAY CONCRETE

	CODE	DESCRIPTION	Price (Excl. 20% VAT)	PACK QTY
	WDOC	Dual Overlay Concrete System (covers 0.72m²)	£40.63	1


CONTURA FLOATING PANEL - WITH RETURNS

	CODE	DESCRIPTION	Price (Excl. 20% VAT)	PACK QTY
	WHS-CO-P2030	Contura Floating 30mm Panel - 200mm Centres With Returns - 150 Grade	£14.31	1
	WHS-CO-P2040	Contura Floating 40mm Panel - 200mm Centres With Returns - 150 Grade	£19.04	1
	WHS-CO-P2050	Contura Floating 50mm Panel - 200mm Centres With Returns - 150 Grade	£23.59	1
	WHS-CO-P2060	Contura Floating 60mm Panel - 200mm Centres With Returns - 150 Grade	£29.42	1
	WHS-CO-P2070	Contura Floating 70mm Panel - 200mm Centres With Returns - 150 Grade	£34.03	1
	WHS-CO-P2080	Contura Floating 80mm Panel - 200mm Centres With Returns - 150 Grade	£36.66	1
	WHS-CO-P2090	Contura Floating 90mm Panel - 200mm Centres With Returns - 150 Grade	£41.06	1
	WHS-CO-P2100	Contura Floating 100mm Panel - 200mm Centres With Returns - 150 Grade	£45.47	1

1 LITRES OF START PRIMER


	CODE	DESCRIPTION	Price (Excl. 20% VAT)	PACK QTY
	ACC-PRIMER	Warmup Primer (1Lt bottle size)	£14.72	1

ADHESIVE

	CODE	DESCRIPTION	Price (Excl. 20% VAT)	PACK QTY
	ACC-S1ADHESIVE	Grey Flexible Tile Adhesive	£20.00	1
	ACC-S2ADHESIVE	Flexible Fibre Reinforced Tile Adhesive (Bag weight: 20Kg, Colour: Grey)	£39.87	1
	ACC-SELFLEVEL	25kg bag of Self-levelling compound	£20.74	1

Aluminium Diffuser Plates

DIFFUSION PLATE 390 x 1000 x 0.5 / 0.6 / 0.7 MM
TWO GROOVE PLATES (16mm PIPE)

	CODE	DESCRIPTION	Price (Excl. 20% VAT)	PACK QTY
	WHS-TE-ALUDP1	Diffusion plate 390 x 1000 x 0.5mm two groove plates (16mm pipe)	£10.39	1
	WHS-TE-ALUDP2	Diffusion plate 390 x 1000 x 0.6mm two groove plates (16mm pipe)	£9.20	1
	WHS-TE-ALUDP3	Diffuser Plate - Aluminium - 2 x 16mm Channels - 0.7mm x 390mm x 1000mm	£14.16	1

DIFFUSION PLATE 190 x 1000 x 0.6 / 0.7MM PLATES (16mm PIPE)


	CODE	DESCRIPTION	Price (Excl. 20% VAT)	PACK QTY
	WHS-TE-ALUDP4	Diffusion plate 190 x 1000 x 0.6mm plates (16mm pipe)	£4.23	1

DIFFUSION PLATE 190 X 1000 X 0.5 MM SINGLE GROOVE PLATE (16MM PIPE)


	CODE	DESCRIPTION	Price (Excl. 20% VAT)	PACK QTY
	UK-WUK-HY-CON-ALUDP9	Contura range - Diffusion plate 190 x 1000 x 0.5 mm single groove plate (16mm pipe)	£5.05	1

Fixing & Ancillaries


TACKER GUN TO BE USED WITH TACKER CLIPS

	CODE	DESCRIPTION	Price (Excl. 20% VAT)	PACK QTY
	WHS-CL-FIXER	Tacker gun (to be used with tacker clips)	£238.96	1


PIPE CUTTERS UP TO 25mm PIPE DIAMETER*

	CODE	DESCRIPTION	Price (Excl. 20% VAT)	PACK QTY
	WHS-P-CUT25	Pipe Cutters up to 25mm pipe diameter	£23.60	1


PIPE CUTTERS UP TO 36mm PIPE DIAMETER*

	CODE	DESCRIPTION	Price (Excl. 20% VAT)	PACK QTY
	WHS-P-CUT36	Pipe cutters up to 36mm pipe diameter	£26.15	1


PIPE DECOILER

	CODE	DESCRIPTION	Price (Excl. 20% VAT)	PACK QTY
	WHS-P-DECOILER	Pipe Decoiler	£374.81	1


CALIBRATION TOOL

	CODE	DESCRIPTION	Price (Excl. 20% VAT)	PACK QTY
	WHS-P-FORM	Calibration Tool	£2.84	1


PIPE BEND SUPPORT FOR WATER SYSTEMS

	CODE	DESCRIPTION	Price (Excl. 20% VAT)	PACK QTY
	WHS-P-BEND12	Pipe bend support for 12mm pipes	£2.14	1
	WHS-P-BEND	Pipe bend support for 16mm pipes	£1.43	1


25mm PIPE CONDUIT PROTECTION 50m

	CODE	DESCRIPTION	Price (Excl. 20% VAT)	PACK QTY
	WHS-CL-CONDUIT	25mm pipe conduit protection 50m for water systems	£62.95	1


40 & 60mm CLYPSO CLIPS FOR WATER SYSTEMS

	CODE	DESCRIPTION	Price (Excl. 20% VAT)	PACK QTY
	WHS-CL-T40	40mm tacker clips (300 per box)	£9.91	300
	WHS-CL-T60	60mm Clypso clips (300 per box) for water systems	£9.91	300


TIES FOR MESH SYSTEM TO HOLD PIPE TO MESH (CABLE TIES)

	CODE	DESCRIPTION	Price (Excl. 20% VAT)	PACK QTY
	WHS-FO-TIE	Ties for Mesh system to hold pipe to mesh (cable ties) - 100/bag	£1.53	100

CLIPRAIL FOR WATER SYSTEMS (SOLD PER UNIT)


	CODE	DESCRIPTION	Price (Excl. 20% VAT)	PACK QTY
	WHS-MT-RAIL01	Cliprail for water systems (sold per unit)	£2.28	1

PERIMETER STRIP FOR WATER SYSTEMS

	CODE	DESCRIPTION	Price (Excl. 20% VAT)	PACK QTY
	AC-EDGE25	Perimeter Expansion Strip - (8mm x 150mm x 25m)	£22.26	1
	WHS-XEDGE50	Perimeter strip for water systems (8mm x 150mm x 50m)	£32.19	1

*Available on special order

POLYTHENE DPM FOR WATER SYSTEMS*


	CODE	DESCRIPTION	Price (Excl. 20% VAT)	PACK QTY
	WHS-X- POL500	Polythene dpm 500g (4m x 50m)	£82.01	1
	WHS-X- POL1200	Polythene dpm 1200g (4m x 25m)	£97.27	1

CABINETS

	CODE	DESCRIPTION	Price (Excl. 20% VAT)	PACK QTY
	WHS- Cabinet400	Manifold Cabinet 400/640/130mm	£82.96	1
	WHS- Cabinet450	Manifold Cabinet 450/640/130mm	£85.83	1
	WHS- Cabinet530	Manifold Cabinet 530/640/130mm	£94.40	1
	WHS- Cabinet680	Manifold Cabinet 680/640/130mm	£108.72	1
	WHS- Cabinet830	Manifold Cabinet 830/640/130mm	£123.99	1
	WHS- Cabinet1030	Manifold Cabinet 1030/640/130mm	£139.24	1
	WHS- Cabinet1130	Manifold Cabinet 1130/640/130mm	£148.77	1


Stainless Steel Manifolds / Ancillaries

WARMUP STAINLESS STEEL MAINFOLD


	CODE	DESCRIPTION	Price (Excl. 20% VAT)	PACK QTY
	WHS- M-S3-02	Warmup Stainless Steel Manifold - 2 zone	£108.69	1
	WHS- M-S3-03	Warmup Stainless Steel Manifold - 3 zone	£145.62	1
	WHS- M-S3-04	Warmup Stainless Steel Manifold - 4 zone	£165.43	1
	WHS- M-S3-05	Warmup Stainless Steel Manifold - 5 zone	£185.22	1
	WHS- M-S3-06	Warmup Stainless Steel Manifold - 6 zone	£207.38	1
	WHS- M-S3-07	Warmup Stainless Steel Manifold - 7 zone	£227.18	1
	WHS- M-S3-08	Warmup Stainless Steel Manifold - 8 zone	£246.97	1
	WHS- M-S3-09	Warmup Stainless Steel Manifold - 9 zone	£273.83	1
	WHS- M-S3-10	Warmup Stainless Steel Manifold - 10 zone	£288.92	1
	WHS- M-S3-11	Warmup Stainless Steel Manifold - 11 zone	£306.36	1
	WHS- M-S3-12	Warmup Stainless Steel Manifold - 12 zone	£329.30	1

*Available on special order


AUTO AIR VENT

	CODE	DESCRIPTION	Price (Excl. 20% VAT)	PACK QTY
	WHS-M-B- VENT	Auto Air Vent for Water System	£11.18	1


EUROCONE CONNECTORS

	CODE	DESCRIPTION	Price (Excl. 20% VAT)	PACK QTY
	WHS-P- CONNECT	16mm x 2mm eurocone connector for water systems	£2.14	1

230V ACTUATOR FOR WATER SYSTEMS

	CODE	DESCRIPTION	Price (Excl. 20% VAT)	PACK QTY
	WHS-M-S3- ACT230	230v Actuator for Water Systems	£20.95	1

WARMUP WATER MIXING UNIT

	CODE	DESCRIPTION	Price (Excl. 20% VAT)	PACK QTY
	WHS-M-S3- MIX	Warmup Water Mixing Unit	£340.79	1

MANIFOLD VALVE KIT - 1" ISOLATING VALVE PAIR, 1" UNIONS AND 22MM COMPRESSION FITTINGS

	CODE	DESCRIPTION	Price (Excl. 20% VAT)	PACK QTY
	WHS-M-S3- VALVES	Manifold valve kit - 1" isolating valve pair, 1" unions and 22mm compression fittings	£31.87	1



*Available on special order

Pipes

WARMUP® PE-RT PIPE 16mm x 2mm



CODE	DESCRIPTION	Price (Excl. 20% VAT)	PACK QTY
WHS-P-PERT-25	PE-RT 16mm x 2mm x 25m	£22.93	1
WHS-P-PERT-50	PE-RT 16mm x 2mm x 50m	£45.88	1
WHS-P-PERT-60	PE-RT 16mm x 2mm x 60m	£55.37	1
WHS-P-PERT-70	PE-RT 16mm x 2mm x 70m	£64.06	1
WHS-P-PERT-80	PE-RT 16mm x 2mm x 80m	£73.55	1
WHS-P-PERT-90	PE-RT 16mm x 2mm x 90m	£82.26	1
WHS-P-PERT-100	PE-RT 16mm x 2mm x 100m	£91.76	1
WHS-P-PERT-110	PE-RT 16mm x 2mm x 110m	£101.25	1
WHS-P-PERT-120	PE-RT 16mm x 2mm x 125m	£109.94	1
WHS-P-PERT-300	PE-RT 16mm x 2mm x 300m	£278.43	1
UK-WUK-HY- PERT-12x50	Warmup Pipe - PE-RT - 12mm x 2mm - 50m Coil Natural colouring	£37.58	1

WARMUP® PEX-A 16mm x 2mm*



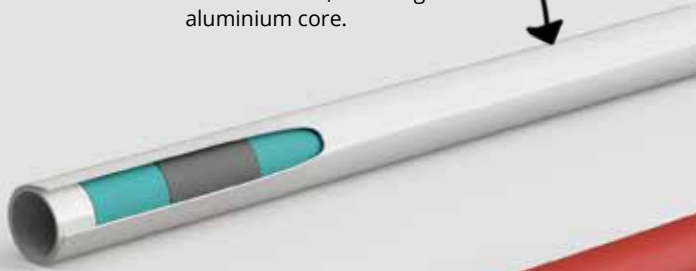
CODE	DESCRIPTION	Price (Excl. 20% VAT)	PACK QTY
WHS-P-PEXA-25	PE-Xa 16mm x 2mm x 25m	£33.77	1
WHS-P-PEXA-50	PE-Xa 16mm x 2mm x 50m	£67.55	1
WHS-P-PEXA-60	PE-Xa 16mm x 2mm x 60m	£81.06	1
WHS-P-PEXA-70	PE-Xa 16mm x 2mm x 70m	£94.56	1
WHS-P-PEXA-80	PE-Xa 16mm x 2mm x 80m	£108.08	1
WHS-P-PEXA-90	PE-Xa 16mm x 2mm x 90m	£121.58	1
WHS-P-PEXA-100	PE-Xa 16mm x 2mm x 100m	£135.08	1
WHS-P-PEXA-110	PE-Xa 16mm x 2mm x 110m	£148.61	1
WHS-P-PEXA-120	PE-Xa 16mm x 2mm x 120m	£162.11	1
WHS-P-PEXA-200	PE-Xa 16mm x 2mm x 200m	£270.19	1
WHS-P-PEXA-300	PE-Xa 16mm x 2mm x 300m	£405.28	1
WHS-P-PEXA-500	PE-Xa 16mm x 2mm x 500m	£613.12	1

WARMUP® MLCP 16mm

CODE	DESCRIPTION	Price (Excl. 20% VAT)	PACK QTY
UK-WUK-HY- MLCP-50	Pipe - MLCP - 16mm x 2mm - 50m Coil	£75.51	1
UK-WUK-HY- MLCP-100	Pipe - MLCP - 16mm x 2mm - 100m Coil	£151.42	1
UK-WUK-HY- MLCP-120	Pipe - MLCP - 16mm x 2mm - 120m Coil	£174.72	1

AL-PE-RT-Pipe

The PE-RT/AL/PE-RT pipe is a 5 layer composite pipe, incorporating layers of PE-RT and adhesives, encasing an aluminium core.



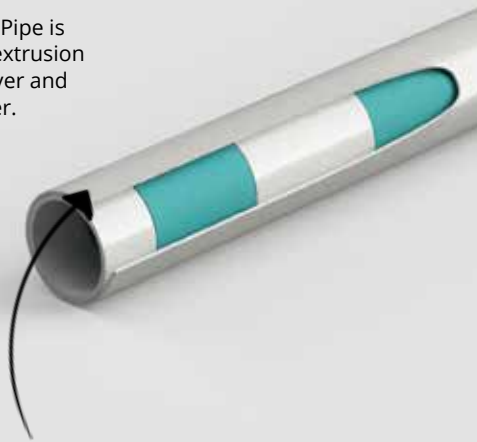
PEX-A-Pipe

The Warmup PEX-A Pipe is formed as a single extrusion with an adhesive layer and EVOH oxygen barrier.



PE-RT-Pipe

The PE-RT pipe is a 5 layer extrusion of polyethylene of raised temperature resistance.



*Available on special order



Warmup Pro Hydro is a platform for plumbers, builders, heating engineers and anyone looking for all the tools you need to quote, design, specify, buy, and install our water underfloor heating systems.



Pro Hydro Tool

No more guesswork. The Warmup Pro Hydro Tool specifies the right products and calculates the perfect system design for your project. Everything from input temperatures to flow rates and pipe spacings are calculated for you to ensure the heat output matches the requirements of the building and occupants. Even the heat loss is estimated inside the tool. With delivery, you'll receive a full commissioning sheet, detailing the exact settings for each of the system components so you can quickly and easily commission to the right spec.



Full Quote In 18 Seconds

Get a Water underfloor heating quote in under 30 seconds with a bespoke system design for your project



System Performance Guarantee

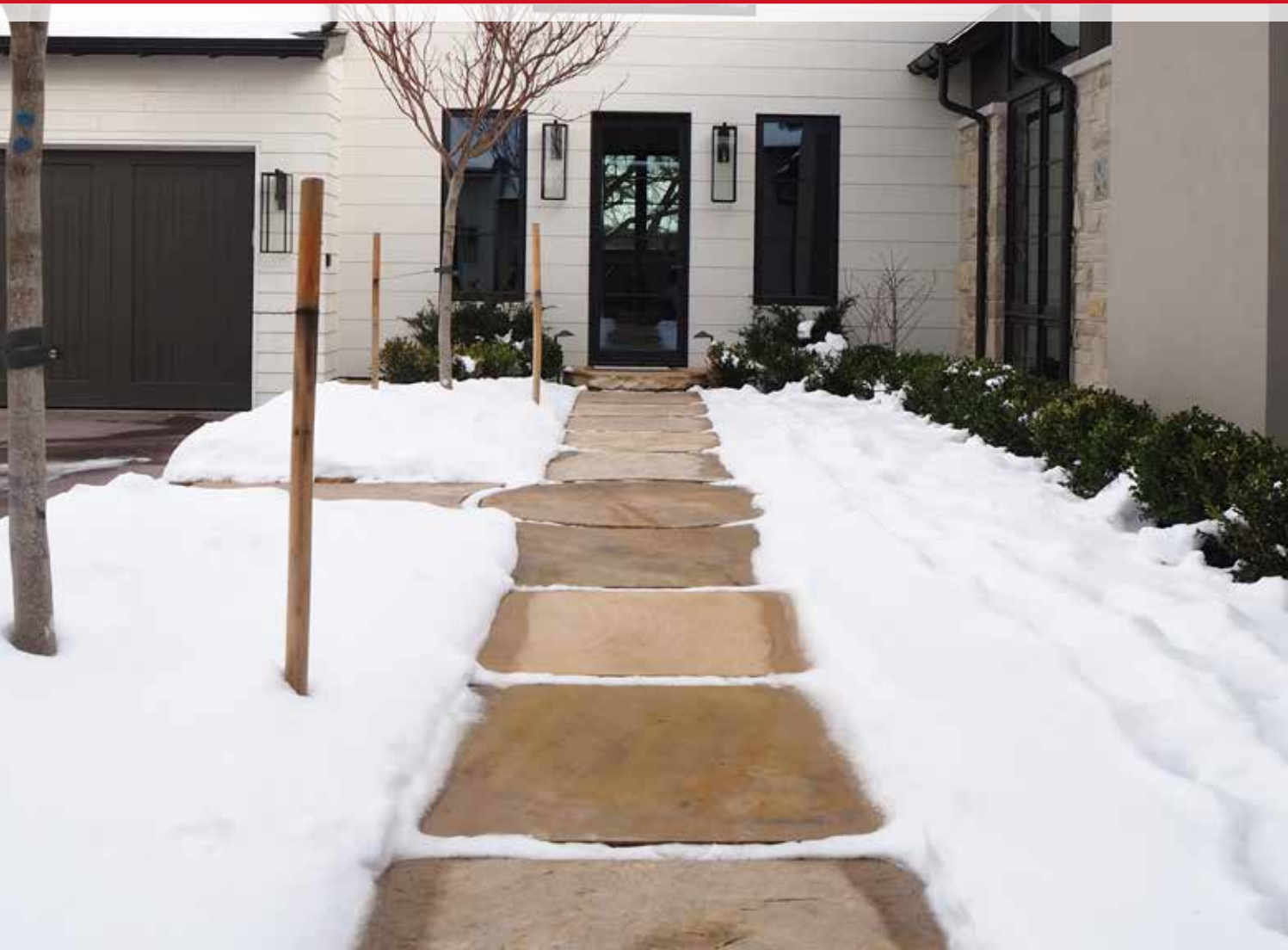
Instant heat loss estimates and automatic system optimisation to guarantee performance



Full Commissioning Log

Warmup Pro Water systems come with a full Commissioning Log to make installation and set up quick and easy

Outdoor Systems





Outdoor Heating Solutions

When it comes to safety in winter, every precaution should be taken. Using Warmup's outdoor heating solutions mean dangerous ice and snow build-up is reduced in concrete, paved or asphalt areas minimising the risk of accidents.

For Commercial and Residential use

Warmup® offers a range of solutions, whether commercial walkways, loading docks, ramps or residential driveways and stairs.

Snow Melting Cables

The resistance-heating element has a single end connection and is completely grounded and safe. The 25W/m cable is ideal for outdoor areas in concrete, under pavers or asphalt.

The Snowmelt Cable is available in 2 different versions to suit concrete/slab and asphalt and comes with a 10 year warranty.

For more information on the systems available or application of Snowmelt, please contact our Sales Support Team on 0345 345 2288 or visit www.warmup.co.uk

Concrete Applications



Asphalt Applications



Scan the code for more information about this product.

Always refer to the installation manual prior to commencing your project.



Self-Regulating Cable

During the winter months when temperature drops and snow fall increases, roofs and gutters are affected.

Warmup's Self-Regulating Cable is perfect to protect pipes from freezing and gutters, roofs and downspouts from dangerous accumulation of ice and snow.

One of the unique differences between the Self-Regulating Cable and traditional heating cables is that the Self-Regulating Cable can be cut to the exact length required without damaging the heating properties of the cable.

Once the cable is in operation, it de-ices roofs and gutters from snow build-up by responding to the ambient temperatures – the heating output increasing, the colder the weather. This ambient response function provides an energy efficient solution as it only increases its heating output when needed and achieves freeze protection by creating clear drain paths required for melted snow and ice to flow freely, avoiding the adverse results of winter.

For more information on the application of the Self-Regulating Cable, please contact our Sales Support Team on 0345 345 2288 or visit www.warmup.co.uk



Scan the code for more information about this product.

Always refer to the installation manual prior to commencing your project.





Global Projects Division

Warmup® offers a dedicated team to help you throughout each stage of your project by allocating a dedicated Contract Manager to support you from specifying and fitting, through to pre and post-installation.

Our Approach

- Upon receipt of your instructions and/or plans you will be assigned a dedicated in-house Project Manager.
- Your Project Manager will contact you to review your project to ensure we have a complete understanding of your needs and the issues affecting your project.
- Upon receipt of all relevant project information including details of floor build up and final floor surface, a quotation will be turned around within 24 hours. Complex projects will take longer. At this point, you will be assigned a contract manager.
- Where appropriate we will provide advice, guidance and support both on and off-site where potential risks can be identified and prevented.
- Provide the highest quality of products and services that are tailored to meet your specific requirements, adhering to best practice at the right price and at the right time.

Specification Process

Warmup® products and solutions adhere to industry standards, government legislation and Building Regulations. The project team, led by your dedicated Contract Manager, will always recommend the best underfloor heating solution for your project, mindful of the need to keep to your specification, project works schedule and budget.

Upon receipt of your order, Warmup will provide complete layouts to ensure there is a precise installation and zone control to the required area.

Working in collaboration with you, we will ensure co-ordination with the layouts and any integrated interior designs.

Warmup® provides quality products and services and will:

- Only promise what we can deliver.
- Deliver on what we promise.
- Always remember that the products and services offered and installed by Warmup stand for quality.

We are committed to providing an excellent level of service and aim to deliver this by:

- Focusing on your needs when recommending solutions, planning and delivering services.
- Applying the same standard of customer care to all our customers, whilst recognising that customers have individual needs



The following standards indicate the minimum level of service customers can expect when dealing with Warmup

- Requests for quotations will be sent an automatic response acknowledging your request.
- We will give you the name of the dedicated Project Manager who has been assigned your enquiry and we will give you an indication of when you can expect to receive a response.
- Should you request us to contact you via telephone, we will agree with you the best time to do so.

Every Warmup® quotation will include a detailed summary of the project in which we will break down:

- The total gross and heated areas
- The total heat load and amperage required
- A detailed list of the items required with relevant technical data supported by illustrations of every item specified, including the controls and details of the supporting Guarantees and Warranties

Once we have been awarded the contract and/or purchase order, your dedicated Project Manager will continue to work closely with you to see your project through to a successful conclusion.



Technical Support

We will support you pre and post sales/installation by offering you telephone support.

We offer online 'live' chat between 08.00 and 17.30hrs Monday to Friday. This is in addition to installation manuals and access to online tutorial videos.

We offer a SafetyNet™ Installation Guarantee. Should you (or your installer) accidentally damage a heating system (wire or pipe) during installation, we will replace it free of charge.

If a floor(s) is damaged post installation (i.e. by drilling through a pipe or wire), we offer a dedicated team of service engineers.

For more information or to submit plans:

Call: 0345 345 2288

Email: uk@warmup.com

Fax: 0345 345 2299

Visit www.warmup.co.uk





Warmup®

The world's **best-selling** floor heating brand

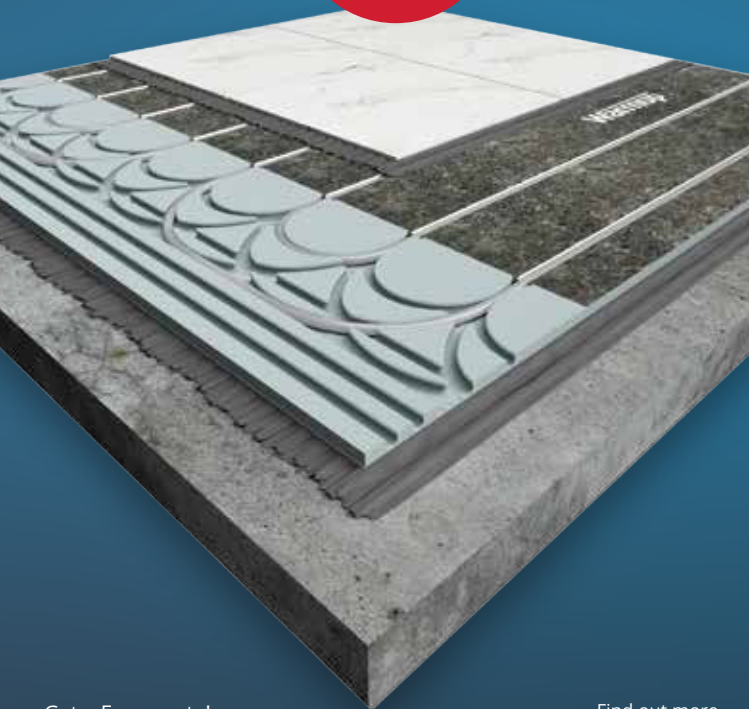
WATER



VLo ULTRA-12

*Market leading heat output
Low build-up - just 18mm
Recycled fleece decoupling layer*

**Launching
October**



Get a Free quote!



Find out more



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Abbey Road
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