THE QUEEN'S AWARDS FOR ENTERPRISE: INTERNATIONAL TRADE 2020

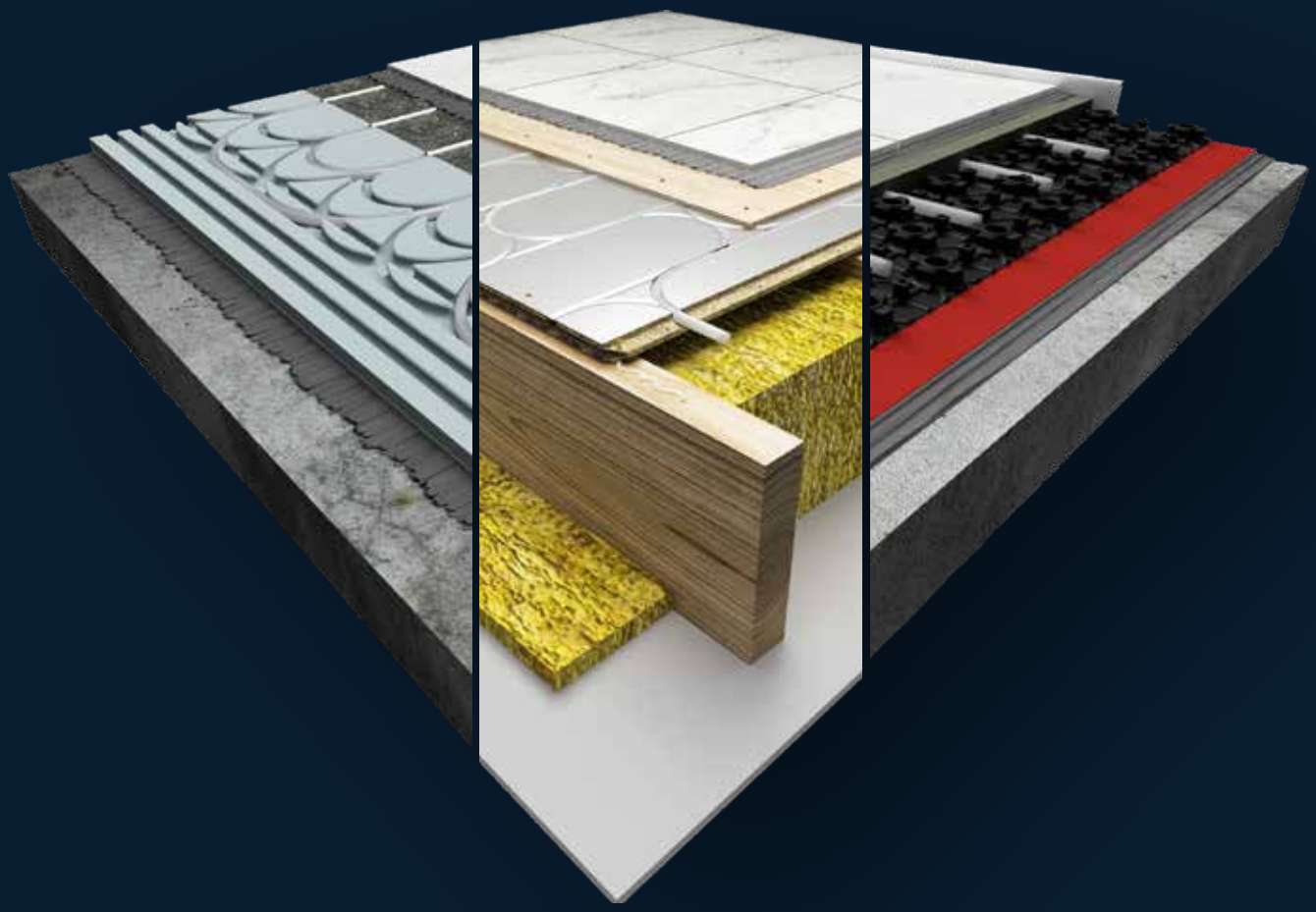
Warmup®

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

BRONZE 2023 ecovadis Sustainability Rating

Water Underfloor Heating Systems

AND SMART CONTROL THERMOSTATS



30th ANNIVERSARY Warmup

Best selling 30 year old company uniquely offering

- ✓ Lifetime warranties
- ✓ 24/7/365 technical helpline
- ✓ Smartcare lifetime support
- ✓ Most efficient, smart wifi thermostats with the lowest energy usage and CO2 emissions

Get an instant quote

HIGHLIGHTS

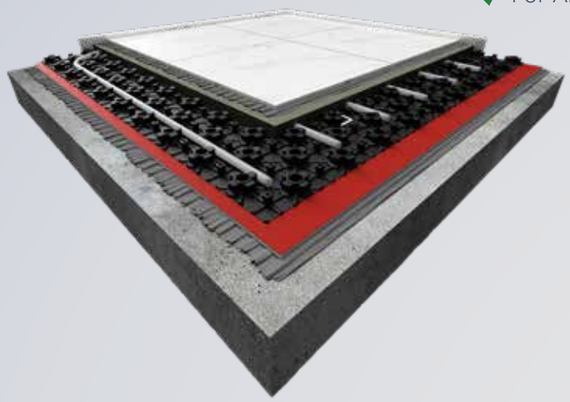
> Up to 36% price drop on pipe
> New water systems Wiring Centre
> No price increases from 2023 at all
> New market leading low profile VLo water range

Warmup Plc | 704 Tudor Estate · Abbey Road · London · NW10 7UW | Tel 0345 345 2288 | Fax 0345 345 2299 | uk@warmup.com | www.warmup.co.uk

Warmup Water Underfloor Heating Systems

***VLo* Nexxa-12™ Castellated System**
Designed for use with insulated floors.

- ✓ Easy installation
- ✓ Excellent Thermal Properties
- ✓ For All Floor Finishes



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NEW PRODUCT

SAFETY Net™ Installation-Guarantee

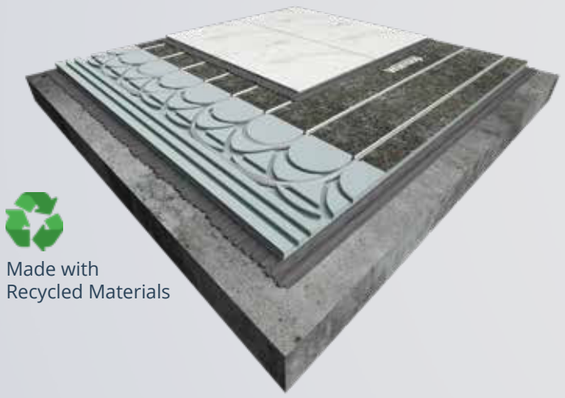
If you accidentally damage the heating system during installation, return it to Warmup and we will replace it with another heater of the same make and model FREE!

LIFETIME LIMITED WARRANTY Warmup

Warmup® PE-RT Underfloor heating pipe Lifetime Warranty with Warmup® systems

***VLo* Ultra-12™ Low Build System**
Ideal for use with uninsulated floors.

- ✓ 18mm Build-Up
- ✓ Tile Directly Over
- ✓ Market Leading Heat Output and Heat Spread



Made with Recycled Materials

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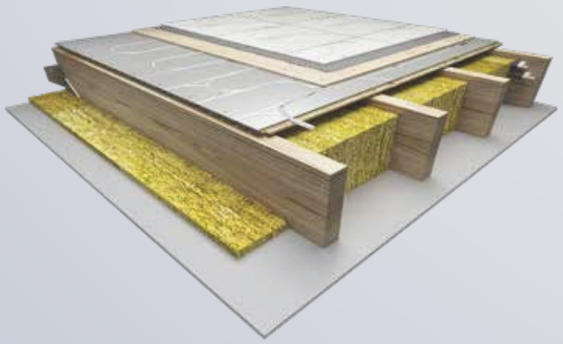
Instant Quote!

***VLo* Econna-12™ Joisted Floor System**
Perfect to install with joisted floors

- ✓ Even Heat Distribution
- ✓ For Timber Suspended & Battened Floors
- ✓ Low Profile Floor Finish



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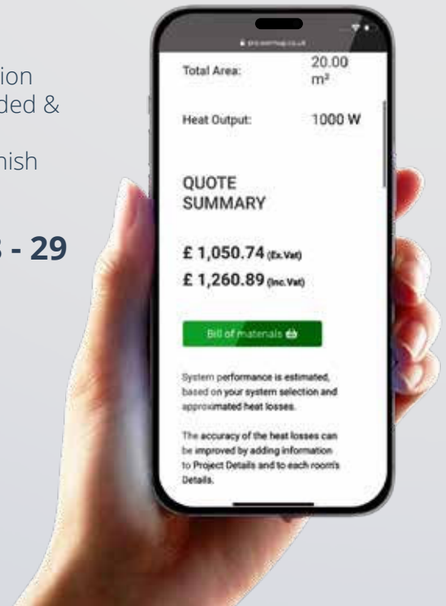

Warmup Trade Counter

Central London's only floor heating advisory centre, warehouse and 2hr delivery service, with early opening and late closing times.

All Trade Customers will be able to purchase using their existing trade terms of their usual Warmup stockist.

Advisory and Quote Service

Call or email for an appointment.
All your key questions answered by the experts, such as:

- Electric vs Water systems
- Energy efficiency, CO2 emissions and running costs
- Most appropriate system for your project, e.g. low build or inscreed
- Layout drawings and install steps

Super fast ordering and pick up

Call ahead, check availability and order. Collect your items in 30 minutes, grab free coffee, tea and snacks and get hands on with our latest products.

Complementary solar powered charging available for electric and hybrid vans while you wait.

2 hour London delivery

Check online or call us for costs and precise timings for your area.

Early opening, late closing

7am opening and 6pm closing to suit your busy schedule.

704 Tudor Estate,
Abbey Road, London
NW10 7UW

Tel: 0345 345 2288

Warmup Smart Care™

A Smart Heating Support Service from The World's Best-Selling Floor Heating Brand

Remote issue diagnostics and fixes

Improves your home's energy performance

Warmup Smart Care is a bespoke Smart heating support service that ensures your home's heating is always running at its optimal level.

Utilising secured data received from your Warmup WiFi-connected thermostat, our team of experts can deliver remote diagnostics to help resolve most issues you may experience with your heating system. We can review your device's settings and control inputs alongside analysing your system's temperature readings and its historic behaviour to not only troubleshoot but to assist in improving your home's energy performance too.

This service guarantees a better heating experience and creates a direct line of communication between you and our dedicated Warmup Smart Care support team.

The Best Warranties, Installation Guarantee and Accreditations

30th ANNIVERSARY Warmup

THE QUEEN'S AWARDS FOR ENTERPRISE: INTERNATIONAL TRADE 2020

UK TRADE & INVESTMENT
Exceptional Manufacturer of the Year
London Passport to Export Awards

bsi. ISO 9001 Quality Management
FS 586320

CE UK CA

Constructionline
A UK GOVERNMENT CERT F CAT ON SERV CE

c UL us LISTED

c ETL us LISTED Intertek

CSA C US

BEAB Approved Intertek

AVIS TECHNIQUE CC FAT

FI

beama

RIBA · CPD · ASSESSED MATERIAL

BEA Business Excellence Awards
SOUTH HERTFORDSHIRE • SOUTH BUCKINGHAMSHIRE • NORTH LONDON • NORTH WEST LONDON

BOARD OF TRADE UNITED KINGDOM Award Winner 2018

TTA

LIFETIME* LIMITED WARRANTY Warmup
WARMUP LIFETIME LIMITED WARRANTY

PE-RT & PE-Xa Systems carry a **Lifetime Warranty** for greater peace of mind.

*Visit warmup.co.uk for details

BRONZE 2023 ecovadis Sustainability Rating

SAFETY Net™ Installation-Guarantee

If you accidentally damage a Warmup heater or pipe during installation, return it to Warmup and we will replace it with another of the same range and size **FREE!**

Why Warmup

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Warmup Water Floor Heating Systems

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NEW PRODUCT

Warmup Smart WiFi & Programmable Thermostats

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UK Pricelist

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Warmup Support

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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 wires insulated with fluoropolymer, 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 UKCA marked, 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**

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

Best Systems

Our underfloor heating systems provide sustainable warmth and a hassle-free installation.

- **Energy-saving technology**
- **Low running costs**
- **Smooth installation for all project types**

Underfloor heating is a cleaner, more efficient way to heat a home. Warmup's collection of water and electric underfloor heating systems gently warm the people and objects in a room directly from the ground up, requiring less energy to reach an ideal temperature compared to traditional systems. Using a Warmup system with its accompanying insulation provides low running costs.

Best Controls

Our range of award-winning controllers improve the energy-efficiency of heating systems.

- **Automatic heat control with SmartGeo technology**
- **Quick to install, set up in minutes**
- **Intuitive control with Smart home compatibility**

Smart multi-zone thermostats improve the performance of a heating system and can facilitate automatic heat functionality - offering radiant warmth at the right temperature, at the right time, automatically. Using a Warmup thermostat alongside our Smartphone apps can reduce energy usage by 25% and help save hundreds of pounds on the end-user's energy bills.

2.5+ Million Systems Installed In 72 Countries | British-Based Company | Lifetime Warranty* Offered | Won The Queen's Award, in 2020 | Help 24 / 7 / 365 | Exceptional Customer Support | Commitment To Environmental Sustainability

Best Service

We provide the best service possible by having the industry's best people on our team.

- **24/7 365-days-a-year support**
- **Instant online quoting tool**
- **Expert advice for your project**

We operate a technical helpline which is open 24 hours per day / 7 days per week / 365 days a year and provide extensive support to guide you through every stage of a project. Our innovative online underfloor heating quote tool can create a complete floor heating solution tailor-made for your project's requirements in a matter of seconds.

Best Information

We are proud to be the premier destination for underfloor heating tools and resources.

- **Warmup Smart Care for bespoke support**
- **Trusted manuals and online technical resources**
- **Innovative running costs calculator**

Warmup's online tools and resources offer comprehensive information for all floor heating queries. Warmup Smart Care, a world first, provides real-time bespoke support for Smart heating systems, whereby our team of experts can deliver remote diagnostics to help resolve any concerns with a Warmup system whilst assisting in improving a property's energy performance.

Best Warranties, Guarantees & Accreditations

Our products feature market-leading warranties and globally recognised accreditations.

- **Lifetime warranties and SafetyNet installation guarantees**
- **World-class accreditations**
- **Renowned Research & Development programme**

Our research and development-led approach to design creates products that perform with excellence. We offer lifetime guarantees on many of our systems and hold accreditations from BEAB, cUL, CSA, FIMKO, SEMKO and UL. In addition, we are members of BEAMA and TTA and all our products are European compliant, and CE marked.

Best Benefits of UFH & Sustainability

Our technologies actively reduce global CO_2 levels.

- **Low-carbon heating and cooling solutions**
- **Energy-efficient technology, reducing energy usage by 35%**
- **Working with the SME Climate Hub initiative**

Warmup's underfloor heating systems can reduce energy usage by up to 35% compared to traditional radiator systems. Installing Warmup solutions throughout a home could save over 700 GWh of energy a year, helping to facilitate renewables and Net Zero technologies across the world. Warmup are working towards the SME Climate Hub initiative to become a carbon neutral organisation.

2.5+ Million Systems Installed In 72 Countries | British-Based Company | Lifetime Warranty* Offered | Won The Queen's Award.

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 CO_2 emission reductions.**

Warmup Monitored Family Homes Programme

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

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

These sensors are strategically placed in each room to record air, floor, radiant, wire/water and external temperatures, along with relative humidities. They provide us with a unique, highly detailed view of the energy used for heating in real homes, by real people, to create their ideal living conditions.

We use this data, in combination with the discoveries made at our Research Centre, to improve our energy models, innovate with our product design and provide world class solutions to our customers.

The knowledge we have built up from this continuous effort allows us to **consult with the Department for Levelling Up, Housing and Communities** as they work on the Building Regulations and **support the BRE** with data for SAP.

Importantly, for our customers it 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 UFH instead of radiators in my home?' and 'How much CO_2 will I save?'

Benefits of Underfloor Heating

Floor heating is 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 room, heating from the floor upwards without cold spots or a stuffy atmosphere.

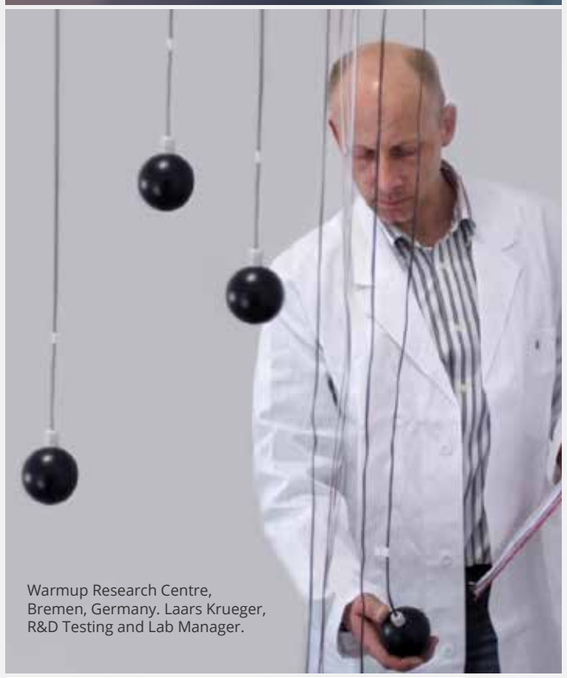
Energy efficiency – Underfloor heating gives the homeowner control, providing responsive highly efficient heating.

With less hot air pooling at the ceiling, rooms loose significantly less heat than they would with traditional heating systems while improving the comfort in occupied space.

Temperature control in each zone - Our comprehensive range of thermostats, including the **6iE™ Smart WiFi Thermostat**, and the **Element™ WiFi Thermostat** allow the homeowner to choose the temperature levels they require, effortlessly controlling their heating with optimised schedules supported by smart learning features to accommodate their lifestyle.

Over 30 years of research driven knowledge and experience, creating innovative new products with

Lifetime Limited Guarantees



Warmup Research Centre, Bremen, Germany. Laars Krueger, R&D Testing and Lab Manager.

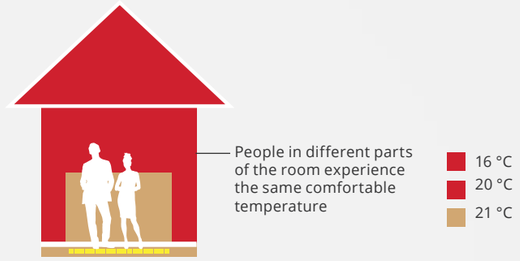
Design freedom - underfloor heating means no bulky radiators to take up valuable wall and floor space.

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

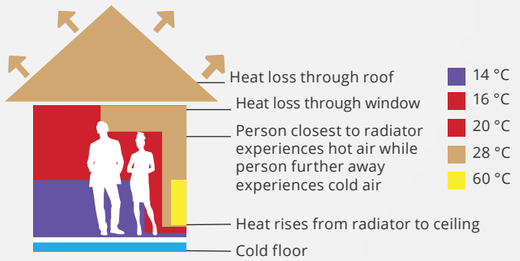
No maintenance - there is no maintenance required for electric underfloor heating and little to no maintenance required on our water systems.

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

Warmup Radiant Floor Heating



Typical Central Heating



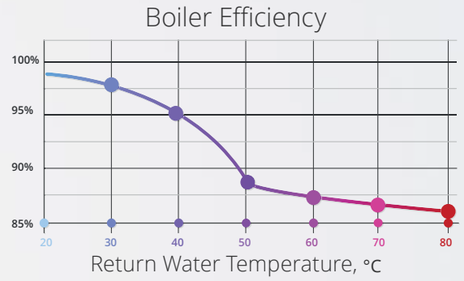
There is an additional benefit unique to hydronic underfloor heating. **Lower water temperatures are required for hydronic underfloor heating to operate as designed, which in turn allows heat sources to operate more efficiently.**

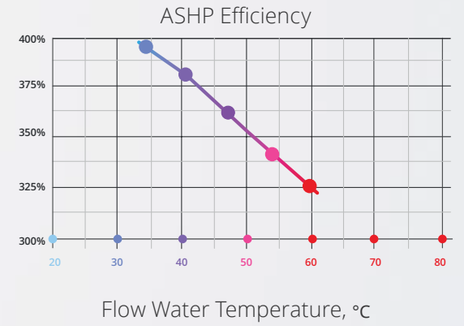
At the time of writing, the percentage of condensing boilers installed throughout the UK that actually operate with a return water temperature lower than approximately 54°C, allowing them to condense the flue gasses and recover the heat from them, is unacceptably low.

Conventional systems are typically designed to operate with a flow water temperature of 75°C and a return water temperature of 65°C, so these A-rated condensing boilers are actually operating much more like a B rated non-condensing boiler at 87% efficiency!

With underfloor heating, the return water temperature is likely to be lower than 40°C by design. Allowing the boiler to condense, boosting its efficiency to 94%, an 8% increase relative to the conventional systems.

The benefits with renewable technologies such as air source heat pumps are even more significant.





Typical heat source efficiencies by water temperature, Source: BRE – Design of Low Temperature Domestic Heating Systems

2.5+ Million Systems Installed In 72 Countries | British-Based Company | Lifetime Warranty* Offered | Won The Queen's Award, in 2020 | Help 24 / 7 / 365 | Exceptional Customer Support | Commitment To Environmental Sustainability

The Warmup Digital Ecosystem combines the best of our expertise and services to make everything from specifying and installing, through to lifetime operation of our underfloor heating systems as easy and efficient as possible.

Warmup are the only provider of heating systems able to offer this end to end ecosystem as we uniquely develop and operate our own range of heating systems, smart controls and digital specification tools.

With Warmup, you can be confident in getting the right heating system, installed correctly, running efficiently and backed up by the UK's largest support network.

Warmup Digital Ecosystem™

EASY: SPECIFICATION | ORDERING | DELIVERY | INSTALLATION | COMMISSIONING | SMARTCARE

Secure storage of digital project records and efficiency and maintenance services inside your client account

1 — Easy Project Specification with our instant quoting tools

- ✓ Instant bespoke system design and optimisation | Improves energy efficiency by up to 10% vs standard quote tools | Reduces material wastage by up to 20% vs standard quote tools
- ✓ Automatic Heat Loss Estimates to ensure performance, even on the coldest days
- ✓ Full bill of materials, layout drawings and prices ready for you to order
- ✓ Access to our team of experts to help you choose the right system for your project

2 — Easy Ordering and Delivery

- ✓ Warmup products available from over 4,000 trusted stores in the UK
- ✓ 30 minute order and collection from our London Trade Counter and Show Room
- ✓ 2 hour or next day delivery to site or store
- ✓ Order tracking and client account

3 — Easy Installation

- ✓ Full installation videos available for our electric and water systems
- ✓ Live tech support available via phone, email and live chat 24 / 7 / 365
- ✓ Facetime video site support available
- ✓ Market leading SafetyNet™ guarantees to resolve accidental damage within 24 hours

4 — Easy Commissioning

- ✓ Bespoke commissioning logs generated automatically for rapid installation
- ✓ Full details on circuit lengths, flow rates, water temperatures and thermostat settings
- ✓ Ensures system performs as designed from day 1, with no trial and error
- ✓ Plans / photos / videos upload - free digital record

5 — smartcare

- ✓ Client account immediate access to all records
- ✓ Immediate resolution over the phone for most issues, including programming & efficiency advice
- ✓ Free for all Warmup Smart thermostat customers Smart Care Efficiency | Energy efficiency insights to reduce energy usage by up to 25% | Access to our experts for remote heating system check ups
- ✓ Smart Care Maintenance | Access to the UK's only dedicated underfloor heating engineer network | Call out and repair service for Warmup Smart thermostats & heating systems | Repair of damaged or underperforming heating systems, even after floor has been laid

smartcare

Instant fixes & efficiency advice with remote diagnostics, free for Warmup users.

Warmup Smartcare is a unique support & maintenance service, where you benefit from remote diagnostics utilising data from your smart thermostats. Most issues, including programming and efficiency advice, can be resolved instantly, and best of all, Smartcare is provided free for Warmup Smart Thermostat customers.

Access to our experts for remote heating system check-ups.

Quicker, simpler and more effective than any other helpline support.

Access to the UK's only dedicated underfloor heating engineer network.

Will include access to booking schedules.

Access to energy efficiency advice from our team.

General advice based on AI-generated energy efficiency alerts.

Repair of damaged or underperforming systems, even after floor has been laid.*

* Call-out and repair assistance may be chargeable in the event of installation errors.

PREMIUM — COMING SOON

smartcare efficiency

+ Energy reports with efficiency insights delivered to you every month, saving up to 25% on energy usage.
+ Proactive issue notifications with suggested resolutions and videos.
+ Heating efficiency alerts.
+ Automatic heating health-checks.

PREMIUM — COMING SOON

smartcare maintenance

+ Free engineer callouts and heater repairs, even after floor has been laid.**
+ Free repair and replacements of Warmup Smart Thermostats.**

** If no fix can be applied remotely following diagnostics check.

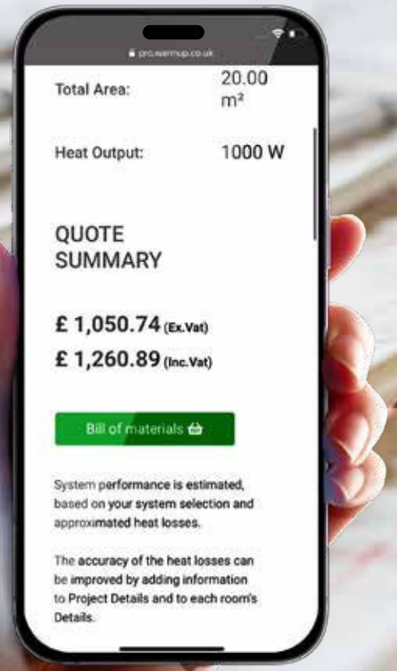
Scan to find out more!

Warmup Hydro Installer programme

Become a Warmup Pro Hydro Installer today to access our state-of-the-art Hydro Quick Quote Spec Tool that gives you quotes in under 30 seconds, an online store to buy from, and fast delivery to site. There is even a training programme in there too.

Sign up today at pro.warmup.co.uk

Water Quick Quote



BRONZE 2023 ecovadis Sustainability Rating

We want to change the way people heat their homes, through sustainable technology that helps lower carbon emissions.

Scan to find out more!

Underfloor heating is a cleaner, smarter way to heat a home. It is estimated that 17.5% of global CO_2 emissions are from energy use in buildings so we must work together to reduce this impact on our environment. Warmup's research led approach to design has resulted in unrivalled heating systems that provide an energy-efficient heating solution for homes around the world, to give a combined reduction of 170,000 t CO2 by 2025.

Floor heaters utilise radiant heat technology to warm a room from the ground up, directly heating the people the furniture within it - this process is up to **40% more efficient than traditional heating methods.** Utilising Warmup heating solutions throughout your home could help you save over 2000kg of CO_2 per year, equivalent to swapping to an electric car, and you can significantly reduce the cost of your energy bills.

Warmup has a full range of solutions to lower CO_2 emissions. For example:

Replace your central heating controls with Warmup Smart Controls to save 421kgCO_2 per year (17% reduction)

Upgrade your kitchen and bathroom to Warmup Electric floor heating with smart controls to save 885kgCO_2 per year (35% reduction)

Transform your home with a full Warmup Water floor heating system with a heat pump to save 2067kgCO_2 per year (82% reduction).

Combine with a renewable energy source such as solar for a zero-carbon home heating system.

Based on typical 100m² home meeting Part L 2002 building regulations and 2023 GHG Protocol emission factors.

Hydronic Underfloor Heating

Hydronic, also called wet or water underfloor heating systems are a popular choice for extensions and new-build construction projects.

These systems use water for heating, so it can be linked to virtually any heat source from a standard boiler to newer sustainable technologies, such as solar thermal energy or heat pumps.

Scan to find out more!

Warmup offers you a complete bespoke solution. Warmup water heating systems come specified 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 to perfectly match your project and budget.

Warmup systems come with a choice of three pipe types: PE-RT, PE-Xa and MLCP. This choice guarantees that you have the best possible system, tailored to your specific installation and budget.

Warmup PE-RT Water pipe carries a lifetime warranty for great Peace of Mind.

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

LIFETIME LIMITED WARRANTY Warmup

Warmup PE-RT Underfloor heating pipe – Lifetime Warranty

SAFETYNet™ Installation-Guarantee

Warmup S3 Manifold™

Made from 304-grade, laser-etched Stainless Steel for high corrosion resistance.

Overview

The Warmup S3 Manifold™ provides flexible zoning and water regulation for 2 to 12 underfloor heating circuits.

It is equipped with all the features needed to commission an underfloor heating system with speed and accuracy.

The Warmup Mixing Unit is available separately for tailored system performance.

✓ Accurate regulation for up to 12 UFH circuits

The Manifold can be used with all Warmup water floor heating systems and is ideal for projects of all sizes.

✓ Pre-assembled, robust design

Quick to install, the S3 Manifold features a single piece construction with no welds that might corrode and leak over time.

✓ Standard 3/4" Eurocones

Compatible with a wide range of underfloor heating pipes and fittings, the Manifold makes it easy to upgrade.

Scan to find out more!

10 YEAR LIMITED WARRANTY Warmup — WARMUP 10 YEAR WARRANTY

Technical Specifications

1	Mounting Bracket
2	Taconova Flow Gauge
3	Thermomanometer
4	Eurocone Connector
5	Manual Air Vent
6	End Cap
7	Fill/Drain Valve
8	Actuator 230V 1W
9	Isolation Valves

Warmup S3 Manifold™			
Material	304 Grade Stainless Steel	Flow Gauge Scale	0 - 5 l/min
Ports Available	2 - 12	Measuring Accuracy	±10%
Mixing Temperature	20-60°C	Port Centres	50mm
Max. Operating Pressure	6 Bar	Standard Pipe Fittings	12 x 1.6 mm and 16 x 2 mm
Max. Test Pressure	10 Bar	Inlet connections	1" F BSP G

Warmup S3™ System

Excellent engineering - where it is most needed

The heart of Warmup's water underfloor heating systems ensures operational precision and utilises top of the range components for long-lasting, best-in-class performance: the Stainless Steel S3 Manifold with Taconova Flow Meters, Manual Air Vents and Thermomanometer, the energy efficient S3 Actuator and the S3 Mixing Unit complete with the Grundfos UPM3 Pump.

Taconova Flow Meters

Best-in-class flow meters improve accuracy and reliability for faster commissioning and the highest performance over the lifetime of the system.

Warmup S3 Actuator 230V

5th Generation Möhlenhoff actuators control the circuit valves and consumes less that 1W of power, making it the most efficient actuator in its class.

Warmup S3 Actuator 230V			
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

Thermomanometer

Thermomanometer (combined Pressure and Temperature Gauge) on the flow arm facilitates pressure testing of multiple manifolds simultaneously and allows even easier operational checks.

Warmup S3 Mixing Unit

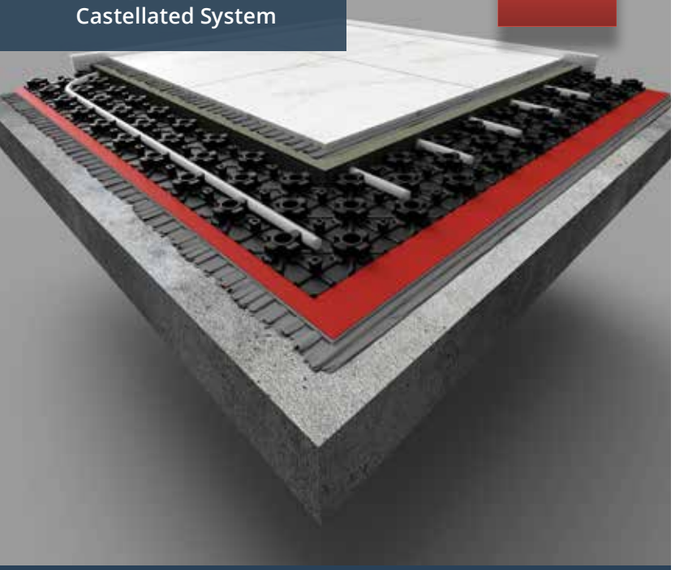
The 3-way Warmup S3 Mixing Unit works with all heat sources, including heat pumps, biomass and solar thermal systems.
The Mixing Unit offers near-silent operation for temperature regulation of between 20°C and 60°C and uses the energy efficient Grundfos UPM3 Pump to provide a constant pressure for faster commissioning and consistent performance over the lifetime of the system. It features approval and marking from VDEM, CE and UKCA.

Warmup Grundfos UPM3 25-70 130			
Operating Voltage	230 V AC; 50Hz	Minimum Inlet Pressure	0.05 MPa (0.50 bar) at 95°C liquid temperature
Connections	G 1½"	Liquid Temparature	+2°C to +110°C (TF110)
Weight	1.9 (kg)	Enclosure Class	IP44 (non condensing) K: IPx4D (condensing)
System Pressure	Max. 1.0 MPa 10 bar	Motor Protection	No external protection needed

2.5+ Million Systems Installed In 72 Countries | British-Based Company | Lifetime Warranty* Offered | Won The Queen's Award, in 2020 | Help 24 / 7 / 365 | Exceptional Customer Support | Commitment To Environmental Sustainability

NEW PRODUCT

VLo Nexxa-12
Castellated System



Overview

Warmup Nexxa-12™ is a lightweight and flexible self-adhesive underfloor heating installation system. Developed to secure 12 mm pipe for even temperature distribution, the system can be fitted by a single installer and allows for lateral and diagonal pipe spacing.

The rigid and compact design ensures a low floor finish, making it ideal for retrofit or new build homes. Suitable to be laid below all flooring types, the panels require no overboarding whilst covering irregular surfaces better thanks to its flexibility.

✓ Easy Installation

Made from a environmentally friendly and recycled polystyrene that can be installed easily and around existing objects.

✓ Excellent Thermal Properties

Excellent heat output when using low water temperatures alongside rapid response times to heating demand.

✓ For All Floor Finishes

Suitable to be laid directly under all types of flooring and over existing insulated floors.

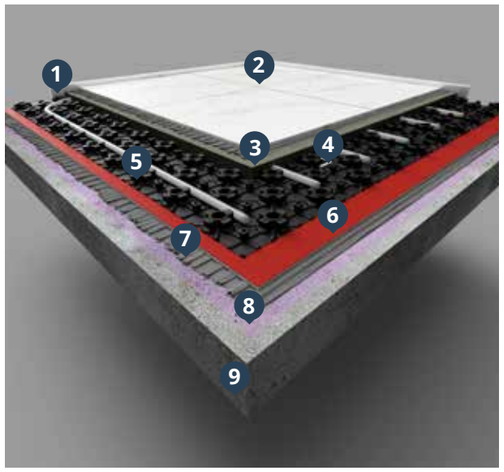
Scan to find out more!

SAFETY Net Installation-Guarantee™

LIFETIME LIMITED WARRANTY Warmup

Warmup PE-RT Underfloor heating pipe – Lifetime Warranty

Typical Floor Build-Up



1	**Warmup Perimeter Strip**
2	**Floor Finish**
3	**22 mm Levelling Compound** *The 22 mm layer is measured from the base of the membrane. Levelling compound used must be compatible with plastic underlayments such as Nexxa-12. The levelling compound must be applied as a single layer.*
4	**Floor Sensor** *Tab tape the sensor to the membrane. Do not tape over the sensor tip!*
5	**Nexxa-12™ Membrane**
6	**Warmup Ultralight™ (Optional)** *Adding Warmup Ultralight™ below the membrane can help improve the response time of the system, particularly when installing over screed or concrete.*
7	**Flexible Tile Adhesive (Optional)** *Required if installing Warmup Ultralight™*
8	**Warmup Primer** *Refer to tile adhesive manufacturers instructions for priming requirements*
9	**Subfloor Surface Regularity of SR2***

Technical Specification

Warmup *VLo* Nexxa-12™			
Product Code	RNX-PANEL	**Pipe Orientation**	0° / 90° / 45° / - 45°
Dimensions	16 x 650 x 1050 mm	**Pipe Bend Radius**	75 mm
Active Area	0.6 m²	**Single Row Stagger**	Yes (Remove / crush castellation first)
Double Up / Interlock On Pallet	Yes	**Supported Pipe Diameters**	10 - 12 mm
Self-Adhesive	Yes	**Cuttable**	Yes
Pipe Spacing Increments	Immediate: 50mm Diagonal: 43 mm / 70mm		

Frequently Asked Questions

What is the VLo Nexxa-12 Castellated System?

The VLo Nexxa-12 Castellated System is a low-profile hydronic underfloor heating system featuring a unique castellated membrane for precision heat control. It offers fast response times and an excellent heat output (70W/m² for timber floors at 40°C water temperature), making it a great choice for refurbishment projects with insulated floors.

What is the purpose of the castellated membrane?

The castellated membrane facilitates an optimal heating layout and allows a clear and repeatable installation method for larger projects. It allows the 12mm PE-RT heating pipe to be simply clipped into place, and the layout of the heated area can be personalised based on the project's needs.

How is the VLo Nexxa-12 Castellated System installed?

The Nexxa-12 panels are self-adhesive, bonding directly to a smoothed and primed subfloor, making them quick to lay with no waiting around for drying time. Once laid, the 12mm PE-RT heating pipe can be simply clipped into place within the castellated membrane, and an appropriate levelling compound can be poured to a thickness of 22mm. Insulation should be installed underneath the Nexxa-12 panels to ensure rapid heat up times and reduce energy usage.

What is the warranty on the VLo Nexxa-12 Castellated System?

The pipe comes with a Limited Lifetime Warranty, and if you accidentally damage the underfloor heating pipe during installation, it can be replaced with the same size and make of pipe for free. In addition, Warmup offers a SafetyNet™ Installation Guarantee which covers the replacement of the same size and make of pipe in the event it is damaged during installation.

How do I prepare the floors for installation?

Warmup Primer is a ready to use, bond enhancing and solvent-free single component primer that is ideal for use before laying Warmup Peel and Stick systems, levelling compounds and tile adhesives. It is suitable for use as a deep penetrating primer on absorbent surfaces and should be applied before the Nexxa-12 system is installed.

System Performance Stats

System Performance Factor, kH - W/m²K					
Floor Finish Resistance	tog	0.00	0.50	1.00	1.50
Pipe Spacing	100mm	8.94	6.02	4.53	3.64
	150mm	7.30	5.19	4.03	3.29

More detailed tables spanning from 0.00 tog to 3.00 tog at 0.25 tog increments are available in the system manual.

Note: The thermal resistance of the required 22mm Levelling Compound has already been included within the table above.

In the formulae below:

q = Specific Heat Output, W/m²
kH = System Performance Factor, W/m²K
T_{water} = Mean Water Temperature, °C
T_{air} = Room Air Temperature, °C

Heat Output

The System Performance Factor can be used to calculate the Heat Output for any combination of Floor Finish, Air and Water Temperatures using the formula below:
$q = kH \times (T_{water} - T_{air})$

Example Heat Output Calculation For:

- 1.0 tog, 14mm thick timber floor finish
- 150mm Pipe spacing
- 21°C Air temperature
- 40°C Water temperature

Using the above table, the System Performance Factor for this Floor Finish Resistance and Pipe Spacing is 4.03W/m²K.

$q = kH \times (T_{water} - T_{air})$
$q = 4.03 \times (40 - 21)$
$q = 4.03 \times 19$
$q = 77W/m^2$

Water Temperature

The System Performance Factor can be used to calculate the Water Temperature required to produce a Specific Heat Output for any combination of Floor Finish and Air Temperature using the formula below:
$T_{water} = (q / kH) + T_{air}$

Example Water Temperature Calculation For:

- 55W/m² Design Heat Load
- 0.15 tog, 4mm thick vinyl floor finish
- 150mm Pipe spacing
- 22°C Air temperature

Since the specific kH value for 0.15 tog floor finish resistance is not provided in the table, it is recommended to use the kH value for the next highest tog value. In this case, we will use the System Performance Factor for 0.5 tog, which is 5.19W/m²K.

$T_{water} = (q / kH) + T_{air}$
$T_{water} = (55 / 5.19) + 22$
$T_{water} = 10.6 + 22$
$T_{water} = 32.6°C$

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NEW PRODUCT

VLo Ultra-12
Low Build System

Low-profile water underfloor heating system, perfect for uninsulated floors.

Made with Recycled Materials

Overview

The VLo Ultra-12™ is the next generation lightweight and robust underfloor heating system from Warmup. The range comprises of 5 panels maximising usabilty for the installer, with each panel purposely designed to hold the pipe securely across the entire floor.

Designed for use with Warmup's 12mm PE-RT pipe that inserts directly into the board channels for quick and easy installation, the system has been created with speed and efficency in mind.

✓ Robust and Efficient Panels with Decoupling Layers

The 18 mm thick panels are manufactured from 500 kPa XPS with a declared long term thermal conductivity of 0.034 W/mK - reducing both heat up times and heat loss.

✓ High System Performance

150µm aluminium foil combined with double serpentine piping ensures there is even and efficient heat output across the floor using low water temperature.

✓ Low Profile Floor Finish & Tile Directly Over

At 18 mm thick VLo Ultra-12 has minimal impact on floor levels when used with any floor covering - ideal for Retrofits and Off-Plan sales into new builds.

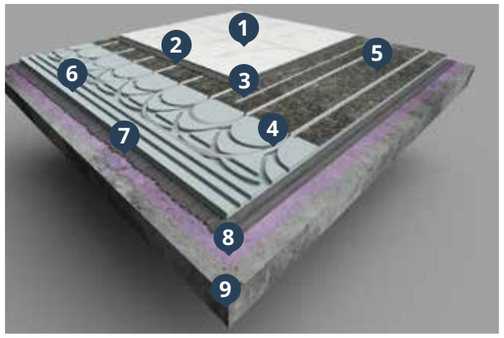
Scan to find out more!

SAFETY Net Installation-Guarantee

LIFETIME LIMITED WARRANTY Warmup

Warmup PE-RT Underfloor heating pipe – Lifetime Warranty

Typical Floor Build-Up



1	**Tile Floor Finish**
2	**Flexible Tile Adhesive** *Tile adhesive used must be compatible with compressible panels such as Ultra-12, e.g. Warmup S2 flexible tile adhesive*
3	**Floor Sensor** *Must be recessed into the Ultra-12 panel and taped in position.*
4	**Warmup 12mm PE-RT Pipe**
5	**Ultra-12™ - Straight Panel**
6	**Ultra-12™ - Curve Panel**
7	**Flexible Tile Adhesive** *e.g. Warmup S1/S2 flexible tile adhesive for wet or dry areas or compatible high temperature acrylic adhesive for dry areas*
8	**Warmup Primer** *Refer to tile adhesive manufacturers instructions for priming requirements*
9	**Subfloor With Surface Regularity Of SR1**

Technical Specification

Warmup Ultra-12 Panels - Foam Component			
Density	50 kg/m³	**Coefficient of linear expansion**	0.07 mm/mK
Thermal Conductivity	0.034W/mK	**Water Vapour Diffusion Resistivity factor (µ)**	110 – 225
Compressive Strength *(10% deflection)*	500kN/m²	**Fire Behaviour**	Euroclass E
Water Absorption *(2-day immersion)*	<1.0% by volume	**ODP** *(Ozone Depleting Potential)*	Zero
Water Absorption *(Capillary)*	Zero	**GWP** *(Global Warming Potential)*	< 0.29

System Components		
Straight Panel	Used to provide heating	
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	

Frequently Asked Question

What are the benefits of using the VLo Ultra-12 Low Build System?

Featuring a low-profile design and robust construction, the VLo Ultra-12 Low Build System is perfect for retrofitting in refurbishment projects. It offers a complete panel set, with dedicated heating, end, service and plain panels, allowing for installation in rooms of any shape or size with no excessive crafting on site. The Ultra-12 uses Warmup's new and improved 12mm PE-RT heating pipe and features innovative decoupling and diffusion layers for increased protection and an even heat spread.

What is the build-up of the Ultra-12 System?

The Ultra-12 System has an 18mm build-up, offering very little impact to existing floor levels. It offers a dry installation method and is suitable for all floor finishes, including solid and engineered wood, ceramic or stone floors, vinyl, and carpet. It can be tiled directly onto.

Is the Ultra-12 System energy-efficient?

The VLo Ultra-12 Low Build System is a low carbon heating solution and can be used with both traditional boilers and heat pumps. Its sustainable technology helps to conserve energy usage, resulting in low running costs.

What type of insulation does the Ultra-12 System have?

The Ultra-12 System features built-in high-quality insulation made from 500kPa XPS with a declared long term thermal conductivity of 0.034 W/mK which assists in reducing both heat up times and heat loss. The 150µm aluminium diffuser ensures an even and efficient heat output across the floor using a low water temperature.

What type of warranty comes with the Ultra-12 System?

The VLo Ultra-12 Low Build System comes with a Lifetime Limited Warranty when installed with Warmup's PE-RT pipe and the SafetyNet™ Installation Guarantee, which covers any accidental damage to the floor heating pipe during installation.

Installation manual of Ultra 12™ Hydro System. Always refer to the installation manual prior to commencing your project.

Scan to find out more!

System Performance Stats

System Performance Factor, kH - W/m²K					
Floor Finish Resistance	tog	0.00	0.50	1.00	1.50
Pipe Spacing	150mm	6.98	4.94	3.83	3.12

More detailed tables spanning from 0.00 tog to 3.00 tog at 0.25 tog increments are available in the system manual.

Note: No overboarding or levelling compound is included within the table above. If you are using a floating floor deck or leveller over Ultra-12, beneath the floor finish, you must also include its thermal resistance, for example:

18mm Chipboard, R = 1.25 tog
18mm HiDECK 18, R = 0.45 tog
12mm Leveller, R = 0.10 tog

In the formulae below:

q = Specific Heat Output, W/m²
kH = System Performance Factor, W/m²K
T_{water} = Mean Water Temperature, °C
T_{air} = Room Air Temperature, °C

Heat Output

The System Performance Factor can be used to calculate the Heat Output for any combination of Floor Finish, Air and Water Temperatures using the formula below:
$q = kH \times (T_{water} - T_{air})$

Example Heat Output Calculation For:

- 1.0 tog, 14mm thick timber floor finish
- 150mm Pipe spacing
- 21°C Air temperature
- 40°C Water temperature

Using the above table, the System Performance Factor for this Floor Finish Resistance and Pipe Spacing is 3.83W/m²K.

$q = kH \times (T_{water} - T_{air})$
$q = 3.83 \times (40 - 21)$
$q = 3.83 \times 19$
$q = 73W/m^2$

Water Temperature

The System Performance Factor can be used to calculate the Water Temperature required to produce a Specific Heat Output for any combination of Floor Finish and Air Temperature using the formula below:
$T_{water} = (q / kH) + T_{air}$

Example Water Temperature Calculation For:

- 55W/m² Design Heat Load
- 0.15 tog, 4mm thick vinyl floor finish
- 0.10 tog, 12mm thick levelling compound
- 150mm Pipe spacing
- 22°C Air temperature

The combined thermal resistance of the Vinyl floor finish and the Levelling Compound is 0.25 tog. Since the specific kH value for this resistance is not provided in the table, it is recommended to use the kH value for the next highest tog value. In this case, we will use the System Performance Factor for 0.5 tog, which is 4.94W/m²K.

$T_{water} = (q / kH) + T_{air}$
$T_{water} = (55 / 4.94) + 22$
$T_{water} = 11 + 22$
$T_{water} = 33°C$

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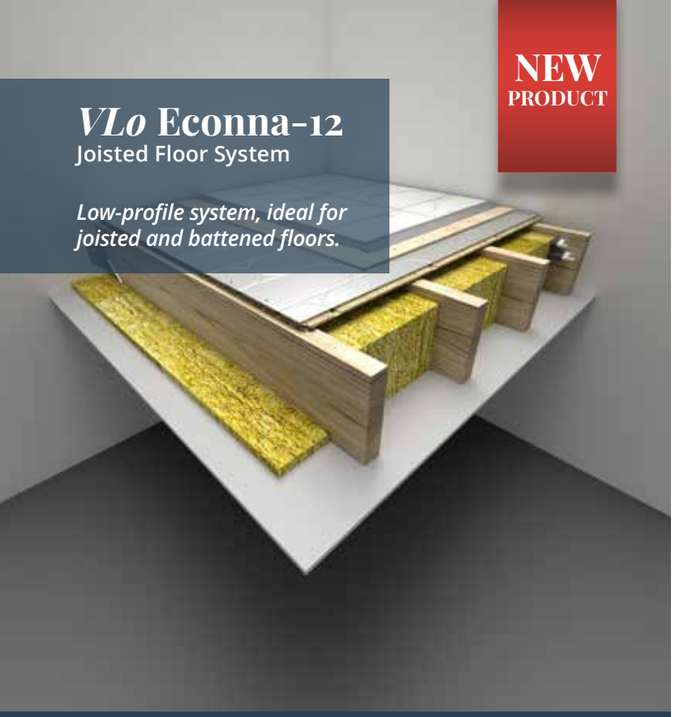


NEW PRODUCT

VLo Econna-12
Joisted Floor System

Low-profile system, ideal for joisted and battened floors.

Overview

The Econna-12™ is designed for use over battened and joisted floors leaving the void between them free for insulation material and other services.

Utilising one universal panel type with fluted exits for a rapid installation, the system's panels also feature a built-in diffuser for an even heat distribution across the floor's surface with no hot and cold spots. As a low-profile heating system, its 12mm heating pipe is built into the structural floor for fast response times.

✓ Even heat distribution

The VLo Econna-12 System uses built-in diffusers to provide an even heat distribution across the entire floor.

✓ For timber suspended & battened floors

Econna-12 is TRADA tested and certified for its structural performance and no screeding is required.

✓ One universal panel type

The low-build system features fluted exits on its panel edges to ensure an easy transition into the neighbouring panel, allowing for a smoother installation.

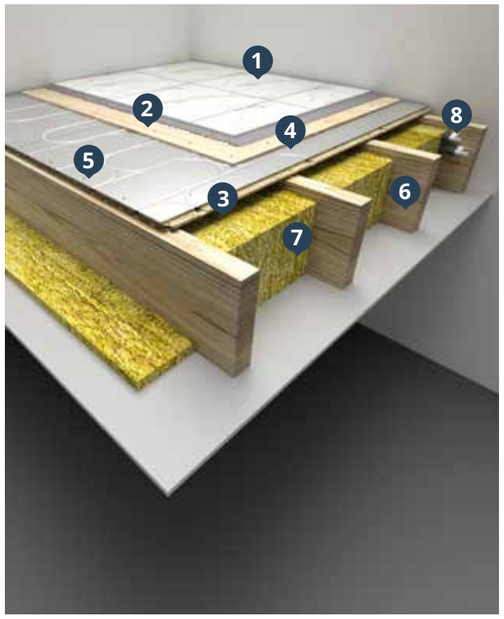
Scan to find out more!

SAFETY Net Installation-Guarantee

LIFETIME LIMITED WARRANTY Warmup

Warmup PE-RT Underfloor heating pipe – Lifetime Warranty

Typical Floor Build-Up



1	**Floor finish**
2	**6 mm Minimum Plywood Deck** *This layer must be screwed to complete the structural deck.*
3	**Warmup 12 mm PE-RT Pipe**
4	**Floor sensor** *Tab tape the sensor to the membrane. Do not tape over the sensor tip!*
5	**Econna Panels** *Panels secured together using a D4 adhesive on BOTH sides of the tongue and groove and fit together. Panels then glued and screwed to the joists.*
6	**Joists ≤ 600 mm Centres** *Refer to tiling standards for maximum joist centres for floors to receive tiles.*
7	**Insulation Layer** *Thickness in line with building regulations*
8	**Flow and Return Pipes**

Technical Specification

Warmup *VLo* Econna-12			
Product Code	UK-WUK-HY-EC-PANEL	**Pipe Centres**	150 mm
Dimensions	2400 mm x 600 mm	**Weight With Water & 6mm ply**	Approx. 14 kg/m²
Thickness	22 mm	**Thermal Conductivity**	0.12 W/mK
Composition	Routed P5 grade chipboard with aluminium heat diffuser strips	**Soft Body Impact**	Pass - EN 12871
Installation Height	22mm (+ 6 mm ply layer)	**Concentrated Load**	Qk, max 1.91kN BS 6399-1

Frequently Asked Questions

What kind of project is the VLo Econna-12 Joisted Floor System suitable for?

The VLo Econna-12 Joisted Floor System is an optimised water underfloor heating system designed for use with battened or joisted floors, making it ideal for period home renovation projects. It utilises the space between timber joists for insulation material whilst also allowing room for other plumbing and electrical services, ensuring a low-profile floor heating solution.

What is the warranty on the VLo Econna-12 Joisted Floor System?

The pipe comes with a Limited Lifetime Warranty, and if you accidentally damage the underfloor heating pipe during installation, Warmup offers a SafetyNet™ Installation Guarantee which protects you against accidental damage.

How do you install the VLo Econna-12 Joisted Floor System?

The VLo Econna-12 offers a dry installation method with no screeding required. It uses a 12mm heating pipe which is built into the structural floor, making sure there will be no overheating of the floor finish. Its 22mm P5 moisture-resistant chipboard panels can be installed over battens or joists with spacings of up to 600mm centres and feature a fluted exit to ensure an easy transition into the neighbouring panel. With no screeding required, the universal panels hold the heating pipe in the optimal position; simply glue and screw down the boards, place the pipes within the grooves and then apply a 6mm ply on top prior to fitting the floor finish.

What is the diffusion layer for?

The built-in diffusion layer facilitates an even heat distribution across the floor's surface, resulting in a more comfortable and high-performance heating system.

Is the system energy-efficient?

The Econna-12's innovative technology can offer significant savings on energy bills and it can be used with a traditional boiler or heat pump.

Installation for Warmup Econna-12 Hydro System. Always refer to the installation manual prior to commencing your project.

Scan to find out more!

System Performance Stats

System Performance Factor, kH - W/m²K					
Floor Finish Resistance	tog	0.00	0.50	1.00	1.50
Pipe Spacing	150mm	3.33	2.80	2.42	2.13

More detailed tables spanning from 0.00 tog to 3.00 tog at 0.25 tog increments are available in the system manual.

Note: The thermal resistance of the required 6mm Plywood Deck has already been included within the table above.

In the formulae below:

q = Specific Heat Output, W/m²
kH = System Performance Factor, W/m²K
T_{water} = Mean Water Temperature, °C
T_{air} = Room Air Temperature, °C

Heat Output
The System Performance Factor can be used to calculate the Heat Output for any combination of Floor Finish, Air and Water Temperatures using the formula below:
$q = kH \times (T_{water} - T_{air})$

Example Heat Output Calculation For:

- 1.0 tog, 14mm thick timber floor finish
- 150mm Pipe spacing
- 21°C Air temperature
- 40°C Water temperature

Using the above table, the System Performance Factor for this Floor Finish Resistance and Pipe Spacing is 2.42W/m²K.

$q = kH \times (T_{water} - T_{air})$
$q = 2.42 \times (40 - 21)$
$q = 2.42 \times 19$
$q = 46 W/m^2$

Water Temperature

The System Performance Factor can be used to calculate the Water Temperature required to produce a Specific Heat Output for any combination of Floor Finish and Air Temperature using the formula below:
$T_{water} = (q / kH) + T_{air}$

Example Water Temperature Calculation For:

- 55W/m² Design Heat Load
- 0.15 tog, 4mm thick vinyl floor finish
- 150mm Pipe spacing
- 22°C Air temperature

Since the specific kH value for 0.15 tog floor finish resistance is not provided in the table, it is recommended to use the kH value for the next highest tog value. In this case, we will use the System Performance Factor for 0.5 tog, which is 2.80W/m²K.

$T_{water} = (q / kH) + T_{air}$
$T_{water} = (55 / 2.80) + 22$
$T_{water} = 19.6 + 22$
$T_{water} = 41.6°C$

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Forte™
Grid System

Overview

The Warmup Forte™ system is a heavy-duty hydronic underfloor heating solution for load-bearing structural floors and can be installed using Warmup's 16 mm PE-RT heating pipe.

The Forte™ System is quick and simple to install with the pipe simply zip tied to the reinforcement being used. Once in place the pipe is resilient to disruption on site and suitable to receive a power floated concrete floor.

✓ For a Variety of Floor Finishes

The system is suitable for almost any floor finish, in particular where the flooring is for a commercial application, such as epoxy paint or resin.

✓ For New-Build Projects

Designed for a secure installation in large-scale new-build construction projects with screed and concrete subfloors.

✓ Fastened To Reinforced Bars

The heat diffusion of the steel reinforcement means the Forte™ System typically emits 5-10% more heat than a system without reinforcement.

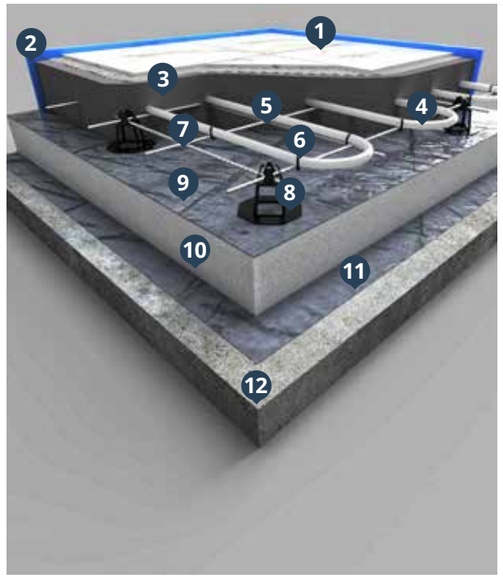
Scan to find out more!

SAFETY Net™ Installation-Guarantee

LIFETIME LIMITED WARRANTY Warmup

Warmup PE-RT Underfloor heating pipe – Lifetime Warranty

Typical Floor Build-Up



1	**Floor Finish**
2	**Perimeter Strip** *To allow for differential movement between finished floor level and walls*
3	**Concrete Layer**
4	**Warmup PE-RT Pipe**
5	**Floor Sensor** *Tab tape the sensor to the subfloor. Do not tape over the sensor tip!*
6	**Warmup Zip Ties**
7	**Reinforcement Mesh**
8	**Reinforcement Mesh Supports**
9	**Vapour Control Layer (VCL)** *To prevent the insulation absorbing moisture from the scree*
10	**Insulation Layer**
11	**Damp Proof Membrane (DPM)** *To prevent water ingress*
12	**Concrete subfloor**

Frequently Asked Questions

What type of subfloors is the Forte™ Grid System suitable for?

The Forte™ Grid System is designed for installation into load-bearing structural floors, such as reinforced concrete and screed subfloors. The system is also suitable for almost any floor finish, particularly for commercial applications such as epoxy paint

How is the Forte™ Grid System installed?

The Forte™ Grid System is installed by fastening the underfloor heating pipework to the reinforced bars using cable ties.
To ensure the most heat-responsive floor, the pipe can be installed in the centre of the concrete zone.

What are the key benefits of the Forte™ Grid System?

The key benefits of the Forte™ Grid System include fastening the pipe to the reinforced bars without impacting the integrity of the floor, and being designed for secure installation in large-scale new-build projects with screed and concrete subfloors.

What is the Warmup SafetyNet™ Installation Guarantee?

The Warmup SafetyNet™ Installation Guarantee is a guarantee offered by Warmup to replace any underfloor heating pipe that is accidentally damaged during installation with the same size and type of pipe for free.

Is the Forte™ Grid System suitable for new-build projects?

Yes, the Forte™ Grid System is designed for new-build construction projects where there is a large floor space to be heated. The reinforced wire grid bars and cable ties provide secure fastening for the heating pipes.

Does the Forte™ Grid System come with a guarantee or warranty?

Yes, the length of the warranty period depends on the type of pipe you choose. When you install this system with the Warmup PEX-a pipe, the pipe comes with a Limited Lifetime Warranty.

Installation of Forte™ Hydro System. Always refer to the installation manual prior to commencing your project.

Scan to find out more!

System Performance Stats

System Performance Factor, kH - W/m²K					
Floor Finish Resistance	tog	0.00	0.50	1.00	1.50
Pipe Spacing	100mm	7.75	5.44	4.19	3.41
	150mm	6.48	4.76	3.76	3.11
	200mm	5.48	4.19	3.39	2.84
	250mm	4.68	3.70	3.05	2.60
	300mm	4.03	3.27	2.75	2.38

More detailed tables spanning from 0.00 tog to 3.00 tog at 0.25 tog increments are available in the system manual.

Note: The Table above assumes that the pipe is placed mid depth within a 100mm Reinforced Concrete slab, for other structural floor compositions, please use our Specification Tools and Services.

In the formulae below:

q = Specific Heat Output, W/m²
kH = System Performance Factor, W/m²K
T_{water} = Mean Water Temperature, °C
T_{air} = Room Air Temperature, °C

Heat Output

The System Performance Factor can be used to calculate the Heat Output for any combination of Floor Finish, Air and Water Temperatures using the formula below:
$q = kH \times (T_{water} - T_{air})$

Example Heat Output Calculation For:

- 1.0 tog, 14mm thick timber floor finish
- 150mm Pipe spacing
- 21°C Air temperature
- 40°C Water temperature

Using the above table, the System Performance Factor for this Floor Finish Resistance and Pipe Spacing is 3.76W/m²K.

$q = kH \times (T_{water} - T_{air})$
$q = 3.76 \times (40 - 21)$
$q = 3.76 \times 19$
$q = 71W/m^2$

Water Temperature

The System Performance Factor can be used to calculate the Water Temperature required to produce a Specific Heat Output for any combination of Floor Finish and Air Temperature using the formula below:
$T_{water} = (q / kH) + T_{air}$

Example Water Temperature Calculation For:

- 55W/m² Design Heat Load
- 0.15 tog, 4mm thick vinyl floor finish
- 150mm Pipe spacing
- 22°C Air temperature

Since the specific kH value for 0.15 tog floor finish resistance is not provided in the table, it is recommended to use the kH value for the next highest tog value. In this case, we will use the System Performance Factor for 0.5 tog, which is 4.76W/m²K.

$T_{water} = (q / kH) + T_{air}$
$T_{water} = (55 / 4.76) + 22$
$T_{water} = 11.5 + 22$
$T_{water} = 33.5°C$

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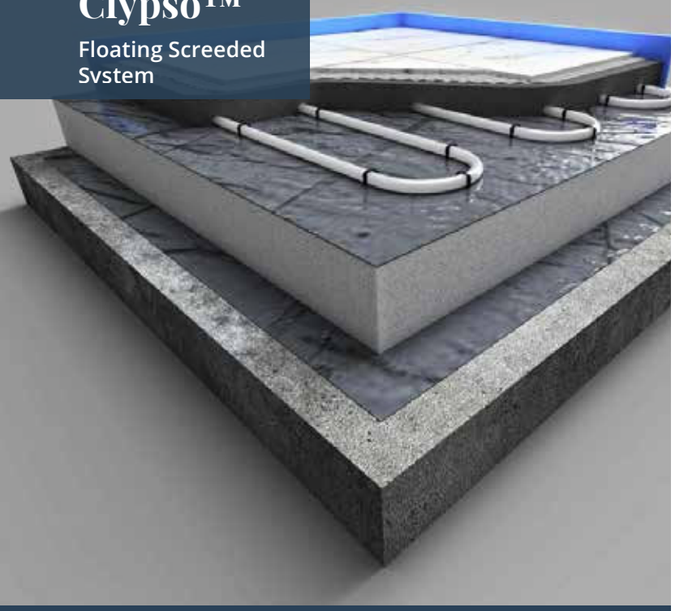
Clypso™

Floating Screeded Svstem



Overview

The Warmup Clypso™ System is designed for use within floating screeded floors. Clypso™ can be installed under either 65 - 75 mm sand and cement screed or proprietary screeds down to 35 mm thick.

The system comprises of 16 mm PE-RT pipe that is held in place by Warmup clips secured to the insulation layer below. A gridded membrane is available from Warmup to make quick and accurate fixing easier to achieve.

✓ For a Variety of Floor Finishes

The Clypso™ system can be installed with almost any floor finish and in particular where the flooring may be replaced from time to time.

✓ Ideal For New Builds

A quick and simple installation into a new screed floor with no impact on finished floor height.

✓ Flexible Pipe Placement

The Clypso™ system suits irregular shaped rooms with curved walls, nooks and obstacles are handled with ease.

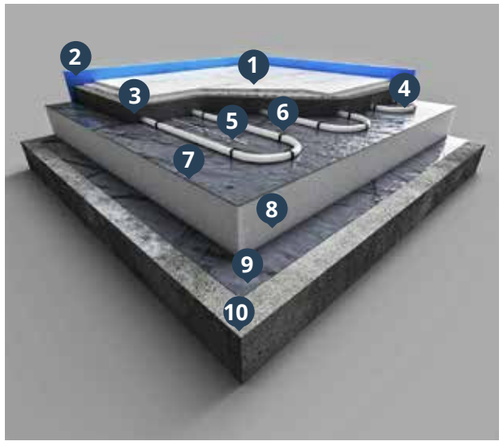
Scan to find out more!

SAFETY Net™ Installation-Guarantee

LIFETIME LIMITED WARRANTY Warmup

Warmup PE-RT Underfloor heating pipe – Lifetime Warranty

Typical Floor Build-Up



1	**Floor Finish**
2	**Perimeter Strip** *To allow for differential movement between finished floor level and walls*
3	**Screed Layer**
4	**Warmup PE-RT Pipe**
5	**Floor Sensor** *Tab tape the sensor to the subfloor. Do not tape over the sensor tip!*
6	**Warmup Clips**
7	**Vapour Control Layer (VCL)** *To prevent the insulation absorbing moisture from the screed*
8	**Insulation Layer**
9	**Damp Proof Membrane (DPM)** *To prevent water ingress*
10	**Concrete subfloor**

Technical Specification

Typical Screed Types and Minimum Thickness over Clypso™		
Screed Type	**Minimum Thickness (mm)**	**Standard**
Traditional cementitious sand/cement	70 (65)	BS 8204-1
Traditional calcium sulfate	40	CIRIA Report 184
Pumpable self-smoothing calcium sulfate	40 (35)	BS 8204-7
Pumpable self-smoothing cementitious	40 (35)	BS 8204-7

The table above shows different screed materials used and minimum thicknesses required for use with underfloor heating systems. Domestic measurements are in brackets. This table is for guidance only, screed layers used over Warmup Clypso™ must be chosen and installed in line with the latest edition of building regulations and standards.

Warmup Clips				
Code	Composition	Height (mm)	Install depth (mm)	Max. Ø (mm)
WHS-CL-T40	Polypropylene clips	40	20	20
WHS-CL-T60		57	37	20

Frequently Asked Questions

What is the Clypso™ System?

The Clypso™ System is a hydronic underfloor heating system from Warmup that comprises of heating pipes, and pipe staples.
It is designed for use within floating screeded floors and does not affect the depth of a floor's construction. The pipes are secured to the floors insulation panels using the staples before covering with screed.

Can installation be made quicker?

Warmup has a woven polypropylene membrane which can be used in place of a standard Vapor Control Layer. It is white with grid printed on the surface. The grid has 100mm major and 50mm minor intervals on it that allow the installation to be done quickly and precisely without the need to take regular measurements.

What type of insulation is used in the system?

The panels used in the system are constructed from either PIR (polyisocyanurate) or expanded polystyrene insulation with a vapour control layer installed over their surface. This ensures that the insulation is waterproof and durable, and will protect the underfloor heating pipes from the wet screed.

What is the SafetyNet™ Installation Guarantee?

The SafetyNet™ Installation Guarantee from Warmup guarantees that if you accidentally damage the underfloor heating pipe during installation, they will replace it with the same size and make of pipe for free. This guarantees a safe and secure installation of the system and provides peace of mind for the installer.

Installation of Warmup Clypso™ Hydro System. Always refer to the installation manual prior to commencing your project.

Scan to find out more!

System Performance Stats

System Performance Factor, kH - W/m²K					
Floor Finish Resistance	tog	0.00	0.50	1.00	1.50
Pipe Spacing	100mm	6.18	4.61	3.68	3.06
	150mm	5.27	4.07	3.32	2.81
	200mm	4.53	3.61	3.01	2.57
	250mm	3.93	3.22	2.72	2.36
	300mm	3.42	2.87	2.47	2.17

More detailed tables spanning from 0.00 tog to 3.00 tog at 0.25 tog increments are available in the system manual.

Note: The Table above assumes that the pipe is placed mid depth within a 100mm Reinforced Concrete slab, for other structural floor compositions, please use our Specification Tools and Services.

In the formulae below:

q = Specific Heat Output, W/m²
kH = System Performance Factor, W/m²K
T_{water} = Mean Water Temperature, °C
T_{air} = Room Air Temperature, °C

Heat Output

The System Performance Factor can be used to calculate the Heat Output for any combination of Floor Finish, Air and Water Temperatures using the formula below:
$q = kH \times (T_{water} - T_{air})$

Example Heat Output Calculation For:

- 1.0 tog, 14mm thick timber floor finish
- 150mm Pipe spacing
- 21°C Air temperature
- 40°C Water temperature

Using the above table, the System Performance Factor for this Floor Finish Resistance and Pipe Spacing is 3.32W/m²K.

$q = kH \times (T_{water} - T_{air})$
$q = 3.32 \times (40 - 21)$
$q = 3.32 \times 19$
$q = 63W/m^2$

Water Temperature

The System Performance Factor can be used to calculate the Water Temperature required to produce a Specific Heat Output for any combination of Floor Finish and Air Temperature using the formula below:
$T_{water} = (q / kH) + T_{air}$

Example Water Temperature Calculation For:

- 55W/m² Design Heat Load
- 0.15 tog, 4mm thick vinyl floor finish
- 150mm Pipe spacing
- 22°C Air temperature

Since the specific kH value for 0.15 tog floor finish resistance is not provided in the table, it is recommended to use the kH value for the next highest tog value. In this case, we will use the System Performance Factor for 0.5 tog, which is 4.07W/m²K.

$T_{water} = (q / kH) + T_{air}$
$T_{water} = (55 / 4.07) + 22$
$T_{water} = 13.5 + 22$
$T_{water} = 35.5°C$

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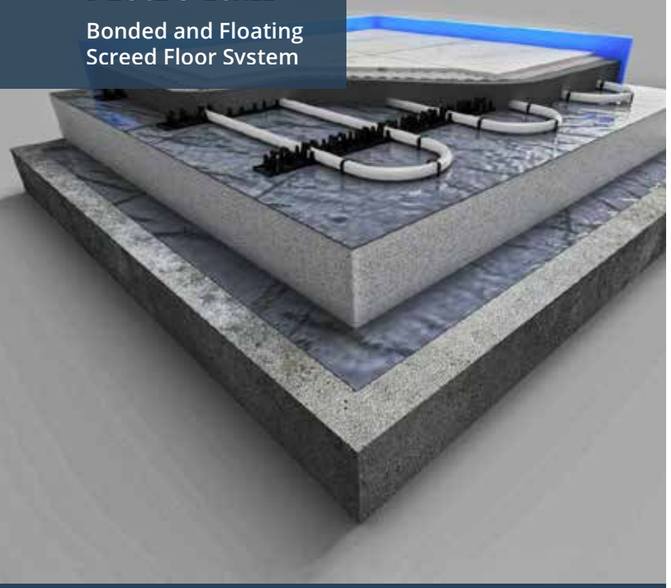
Metro Rail™

Bonded and Floating Screed Floor System



Overview

The Warmup Metro™ System is designed for use within either a floating or a bonded screed floor. The Metro™ Rail allows for quick, consistently spaced installation of the 16 mm PE-RT pipe prior to laying either a standard or a proprietary screed.

The Metro™ rails have clips spaced at 50 mm intervals, enabling the pipe to be fitted with a level of installation precision which is difficult to achieve with the Clypso™ System.

✓ For a Variety of Floor Finishes

The Metro™ system can be installed with almost any floor finish and in particular where the flooring may be replaced from time to time.

✓ Perfect for Screed and Concrete Subfloors

A great choice for a hydronic heating solution in new-build projects.

✓ Specially Designed Rails to Hold the Pipe

The Metro™ rail utilises a track that fixes to the insulation, holding the 16 mm PE-RT pipe at the correct level prior to screeding to ensure there are no hot spots.

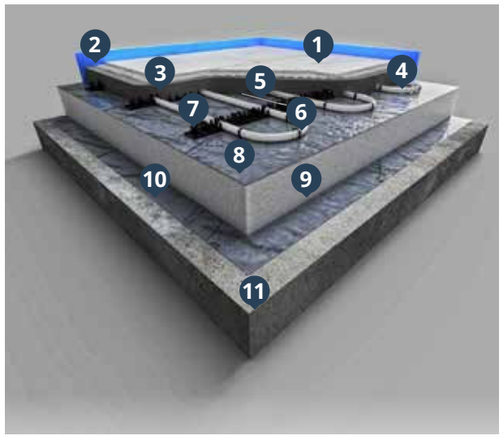
Scan to find out more!

LIFETIME LIMITED WARRANTY Warmup

SAFETY Net™ Installation-Guarantee

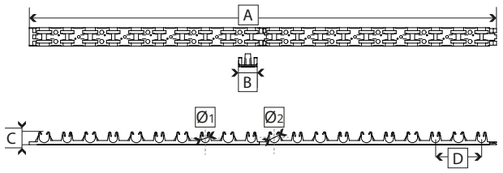
Warmup PE-RT Underfloor heating pipe – Lifetime Warranty

Typical Floor Build-Up



1	**Floor Finish**
2	**Perimeter Strip** *To allow for differential movement between finished floor level and walls*
3	**Screed Layer**
4	**Warmup PE-RT Pipe**
5	**Floor Sensor** *Tab tape the sensor to the subfloor. Do not tape over the sensor tip!*
6	**Warmup Clips**
7	**Warmup Metro™ Rail** *Rails are self-adhesive*
8	**Vapour Control Layer (VCL)** *To prevent the insulation absorbing moisture from the screed*
9	**Insulation Layer**
10	**Damp Proof Membrane (DPM)** *To prevent water ingress*
11	**Concrete subfloor**

Technical Specification



Warmup Metro™ Rail						
Code	Composition	Length A (mm)	Width B (mm)	Height C (mm)	Pipe Centres D (mm)	Max Ø1: Ø2 (mm)
WHS-MT-RAIL01	Polypropylene rails with self-adhesive back	516	40	27.5	100	16 - 18: 20 - 22

Warmup Clips				
Code	Composition	A (mm)	B (mm)	Max. Ø (mm)
WHS-CL-T40	Polypropylene clips	40	20	20
WHS-CL-T60		57	37	20

Frequently Asked Questions

What type of floor is the Metro™ Rail System designed for?

The Metro™ Rail System is designed for use with either a floating or a bonded screed floor. It utilises a self-adhesive track that fixes to the insulation to securely hold the heating pipes in place, in an optimal layout. It is ideal for use with either floating or bonded screed floors and offers a quick and efficient installation.

What type of insulation is recommended for use with the system?

The system is recommended to be installed with EPS, XPS or PIR insulation and a plastic membrane, which acts as a moisture barrier. The insulation is designed to keep the heat in the floor and protect the pipes against any damage.

What type of heating pipe is used with the system?

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

What is the recommended spacing for the pipes?

The rail and insulation are separated by a plastic membrane, which acts as a moisture barrier. The Metro Rail System allows pipes to be spaced at 150mm intervals, allowing for faster heat-up response times.

Is there a warranty for the installation of the system?

Yes, Warmup offers a SafetyNet™ Installation Guarantee, which covers accidental damage to the heating pipe during installation. If you accidentally damage the underfloor heating pipe during installation, return it to Warmup and they will replace it with the same size and make of pipe for free.

Installation of Warmup Metro™ Rail Hydro System. Always refer to the installation manual prior to commencing your project.

Scan to find out more!

System Performance Stats

System Performance Factor, kH - W/m²K					
Floor Finish Resistance	tog	0.00	0.50	1.00	1.50
Pipe Spacing	100mm	6.18	4.61	3.68	3.06
	150mm	5.27	4.07	3.32	2.81
	200mm	4.53	3.61	3.01	2.57
	250mm	3.93	3.22	2.72	2.36
	300mm	3.42	2.87	2.47	2.17

More detailed tables spanning from 0.00 tog to 3.00 tog at 0.25 tog increments are available in the system manual.

Note: The Table above assumes that the pipe is placed within a standard 65mm Sand & Cement Screed, for other structural floor compositions, please use our Specification Tools and Services.

In the formulae below:

q = Specific Heat Output, W/m²
kH = System Performance Factor, W/m²K
T_{water} = Mean Water Temperature, °C
T_{air} = Room Air Temperature, °C

Heat Output

The System Performance Factor can be used to calculate the Heat Output for any combination of Floor Finish, Air and Water Temperatures using the formula below:
$q = kH \times (T_{water} - T_{air})$

Example Heat Output Calculation For:

- 1.0 tog, 14mm thick timber floor finish
- 150mm Pipe spacing
- 21°C Air temperature
- 40°C Water temperature

Using the above table, the System Performance Factor for this Floor Finish Resistance and Pipe Spacing is 3.32W/m²K.

$q = kH \times (T_{water} - T_{air})$
$q = 3.32 \times (40 - 21)$
$q = 3.32 \times 19$
$q = 63W/m^2$

Water Temperature

The System Performance Factor can be used to calculate the Water Temperature required to produce a Specific Heat Output for any combination of Floor Finish and Air Temperature using the formula below:
$T_{water} = (q / kH) + T_{air}$

Example Water Temperature Calculation For:

- 55W/m² Design Heat Load
- 0.15 tog, 4mm thick vinyl floor finish
- 150mm Pipe spacing
- 22°C Air temperature

Since the specific kH value for 0.15 tog floor finish resistance is not provided in the table, it is recommended to use the kH value for the next highest tog value. In this case, we will use the System Performance Factor for 0.5 tog, which is 4.07W/m²K.

$T_{water} = (q / kH) + T_{air}$
$T_{water} = (55 / 4.07) + 22$
$T_{water} = 13.5 + 22$
$T_{water} = 35.5°C$

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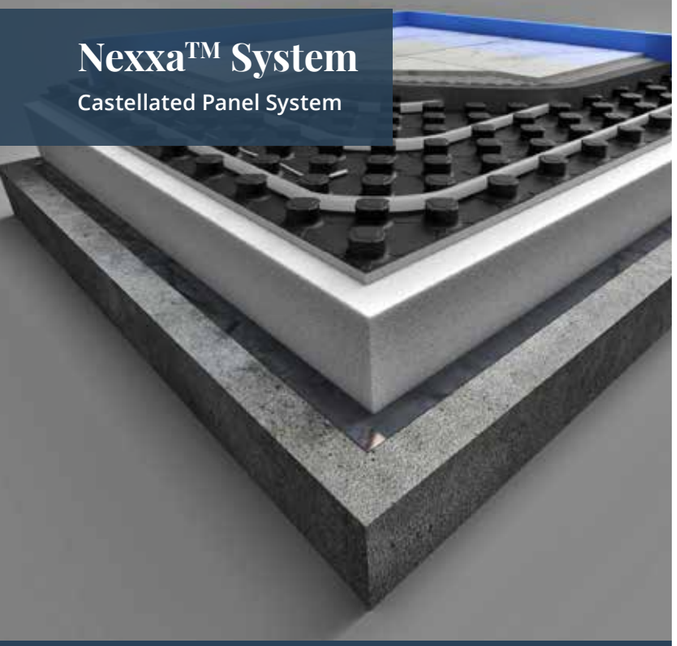
Nexxa™ System

Castellated Panel System



Overview

The Warmup Nexxa™ system enables the most precise installation of underfloor heating within a floating screeded floor. It uses unique castellation panels to grip the heating pipe preventing both horizontal and vertical movement and allowing any future floor fixings to be made with confidence.

The system can be installed in both new-build and renovation projects. Its panels require less screeding than other systems, meaning it can reduce the structural load on the building and result in cost savings in screed materials.

✓ Low build height

Just 32mm, making it ideal for both new-build and renovation projects.

✓ Perfect for pre-insulated floating floors

The system allows reduced screed depths, minimising structural load and material costs.

✓ Fast heat-up times

With an 11mm EPS backing, the system ensures a rapid response to heating demand.

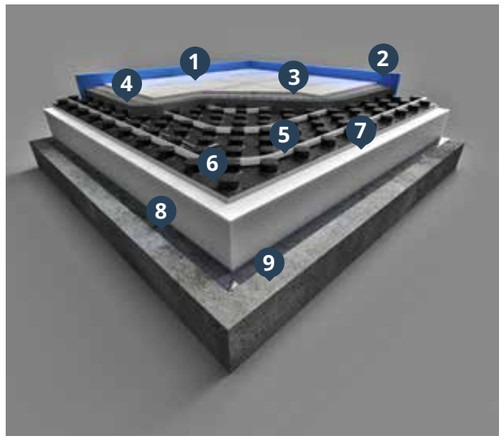
Scan to find out more!

SAFETY Net Installation-Guarantee

LIFETIME LIMITED WARRANTY Warmup

Warmup PE-RT Underfloor heating pipe – Lifetime Warranty

Typical Floor Build-Up



1	**Floor Finish**
2	**Perimeter Strip** *To allow for differential movement between finished floor level and walls*
3	**Flexible Adhesive**
4	**Screed layer**
5	**Warmup PE-RT Pipe**
6	**Nexxa™ Panels**
7	**Insulation layer**
8	**Damp Proof Membrane (DPM)** *To prevent water ingress*
9	**Concrete subfloor**

Technical Specification

Warmup Nexxa Panel			
Product Code	WHS-TL-ALU10	**Thermal Conductivity @ 10°C**	0.035 W/mK
Dimensions	1450 x 850 mm	**R-Value**	0.314 m² K/W
Thickness	32 mm	**Fire Class EN 13501-1**	E
Compressive stress CS (10)	200 kPa		

Frequently Asked Questions

What is the Warmup Nexxa System?

The Warmup Nexxa System is an underfloor heating system that enables precise installation within a floating screeded floor. It uses innovative castellated panels to securely locate and hold the heating pipes in place before screeding.

Is the Nexxa System best for new-builds or renovations?

The Nexxa System is suitable for both new-builds and renovation projects, particularly where there are floor build-up issues to deal with. It also requires less screeding than other systems, meaning it can substantially reduce the overall build-up of the floor structure.

Is the Nexxa System suitable for different types of floor finishes?

Yes, the Nexxa System is suitable for almost any floor finish and is particularly useful where the flooring may be replaced from time to time. This includes wood, carpet or vinyl flooring.

Does the Nexxa System come with a guarantee or warranty?

Yes, Warmup offers a Safety Net Installation Guarantee with this system. If you accidentally damage the underfloor heating pipe during installation, we will replace it with the same type of pipe for free.

Can the Nexxa System be used with heat pumps?

The Nexxa System can be used with heat pumps and traditional heat sources.

Installation manual for Warmup Nexxa™ Hydro System. Always refer to the installation manual prior to commencing your project.

Scan to find out more!

System Performance Stats

System Performance Factor, kH - W/m²K					
Floor Finish Resistance	tog	0.00	0.50	1.00	1.50
Pipe Spacing	100mm	6.08	4.56	3.65	3.04
	150mm	5.19	4.03	3.29	2.78
	200mm	4.47	3.57	2.98	2.55
	250mm	3.87	3.18	2.70	2.34
	300mm	3.37	2.84	2.45	2.15

More detailed tables spanning from 0.00 tog to 3.00 tog at 0.25 tog increments are available in the system manual.

Note: The Table above assumes that the pipe is placed within a standard 65mm Sand & Cement Screed, for other structural floor compositions, please use our Specification Tools and Services.

In the formulae below:

q = Specific Heat Output, W/m²
kH = System Performance Factor, W/m²K
T_{water} = Mean Water Temperature, °C
T_{air} = Room Air Temperature, °C

Heat Output

The System Performance Factor can be used to calculate the Heat Output for any combination of Floor Finish, Air and Water Temperatures using the formula below:
$q = kH \times (T_{water} - T_{air})$

Example Heat Output Calculation For:

- 1.0 tog, 14mm thick timber floor finish
- 150mm Pipe spacing
- 21°C Air temperature
- 40°C Water temperature

Using the above table, the System Performance Factor for this Floor Finish Resistance and Pipe Spacing is 3.29W/m²K.

$q = kH \times (T_{water} - T_{air})$
$q = 3.29 \times (40 - 21)$
$q = 3.29 \times 19$
$q = 62.5 W/m^2$

Water Temperature

The System Performance Factor can be used to calculate the Water Temperature required to produce a Specific Heat Output for any combination of Floor Finish and Air Temperature using the formula below:
$T_{water} = (q / kH) + T_{air}$

Example Water Temperature Calculation For:

- 55W/m² Design Heat Load
- 0.15 tog, 4mm thick vinyl floor finish
- 150mm Pipe spacing
- 22°C Air temperature

Since the specific kH value for 0.15 tog floor finish resistance is not provided in the table, it is recommended to use the kH value for the next highest tog value. In this case, we will use the System Performance Factor for 0.5 tog, which is 4.03W/m²K.

$T_{water} = (q / kH) + T_{air}$
$T_{water} = (55 / 4.03) + 22$
$T_{water} = 13.65 + 22$
$T_{water} = 36°C$

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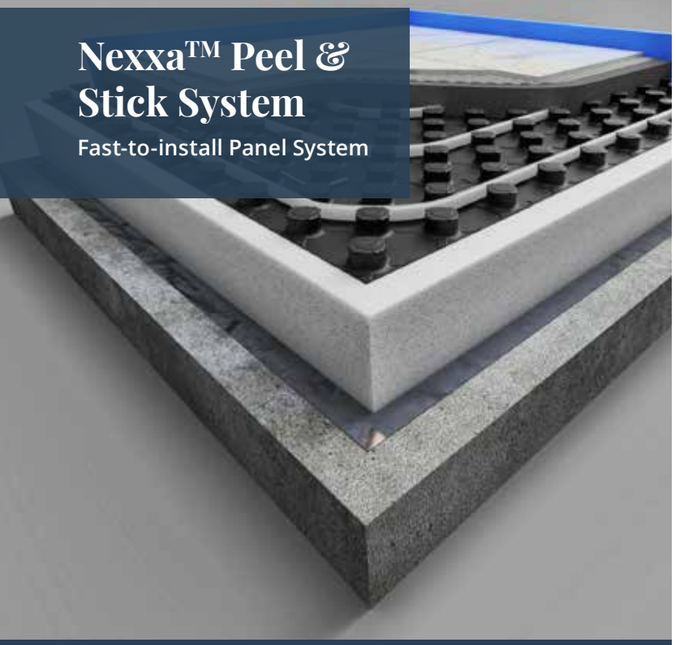
Nexxa™ Peel & Stick System

Fast-to-install Panel System



Overview

The Warmup Nexxa™ Peel and Stick system uses self-adhesive backed castellation panels for rapid installation times with floating screeded floors, with no waiting for the adhesive to dry before laying the heating pipe.

With a slimline design of just 21mm, the Nexxa Peel and Stick System is an ideal choice for renovation projects. Its castellated panels hold the heating pipe in place at an optimal layout whilst requiring less screeding than other water floor heating systems, helping to reduce the overall build-up of floor levels.

✓ Rapid installation

Self-adhesive backing offers a quick install and provides a more stable base.

✓ 21mm build height

Ultra-slimline construction won't impact existing floor levels.

✓ Innovative design

More sheets per box, making transportation and installation more efficient.

Scan to find out more!

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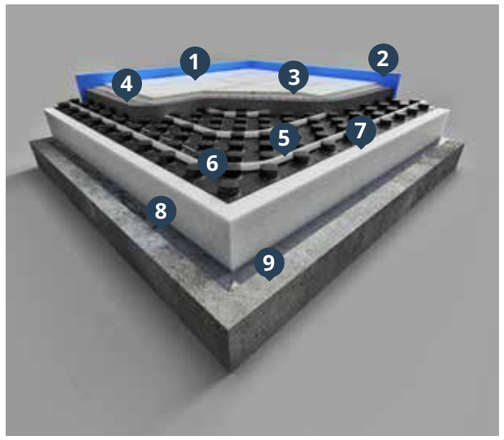
LIFETIME LIMITED WARRANTY Warmup

Warmup PE-RT Underfloor heating pipe – Lifetime Warranty

Typical Floor Build-Up



1	**Floor Finish**
2	**Perimeter Strip** *To allow for differential movement between finished floor level and walls*
3	**Flexible Adhesive**
4	**Screed layer**
5	**Warmup PE-RT Pipe**
6	**Nexxa™ Peel & Stick Panels**
7	**Insulation layer**
8	**Damp Proof Membrane (DPM)** *To prevent water ingress*
9	**Concrete subfloor**

Technical Specification

Warmup Nexxa Peel & Stick Panel	
Product Code	NEX-P&S
Dimensions	1450 x 850 mm
Thickness	21 mm

Frequently Asked Questions

What are the benefits of the Warmup Nexxa™ Peel and Stick System?

The Warmup Nexxa Peel and Stick System allows secure installation of the pipework in its accompanying castellated panels before screeding, with no clips required. The panels feature a self-adhesive backing which provide fast installation times.

Is the Nexxa Peel and Stick System a low-profile floor heating solution?

With a slimline design of just 21mm, the Nexxa Peel and Stick System is perfect for renovation projects featuring restricted ceiling heights. The system also requires less screeding than other water floor heating systems which helps to reduce the overall build-up of floor levels as well as the structural load.

Should insulation be installed with the Nexxa Peel and Stick System?

The Nexxa Peel and Stick System is an ideal water underfloor heating system for use with floating screeded floors in projects that feature existing insulation. Warmup also offer high-quality insulation that can be used with the system.

Can the Nexxa Peel and Stick System be installed with all floor finishes?

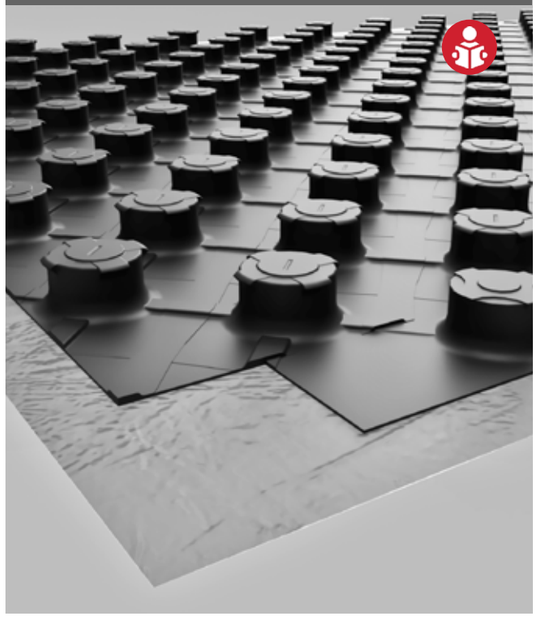
Yes, the Nexxa Peel and Stick System can be used with almost any floor finish that has been certified for use with water underfloor heating.

Will the Nexxa Peel and Stick System improve a property's energy performance?

The Nexxa Peel and Stick System promotes sustainable technology which can dramatically lower the carbon emissions of a project and provide low running costs for the end-user.

Installation manual for Warmup Nexxa™ Hydro System. Always refer to the installation manual prior to commencing your project.

Scan to find out more!



System Performance Stats

System Performance Factor, kH - W/m²K					
Floor Finish Resistance	tog	0.00	0.50	1.00	1.50
Pipe Spacing	100mm	6.08	4.56	3.65	3.04
	150mm	5.19	4.03	3.29	2.78
	200mm	4.47	3.57	2.98	2.55
	250mm	3.87	3.18	2.70	2.34
	300mm	3.37	2.84	2.45	2.15

More detailed tables spanning from 0.00 tog to 3.00 tog at 0.25 tog increments are available in the system manual.

Note: The Table above assumes that the pipe is placed within a standard 65mm Sand & Cement Screed, for other structural floor compositions, please use our Specification Tools and Services.

In the formulae below:

q = Specific Heat Output, W/m²
kH = System Performance Factor, W/m²K
T_{water} = Mean Water Temperature, °C
T_{air} = Room Air Temperature, °C

Heat Output

The System Performance Factor can be used to calculate the Heat Output for any combination of Floor Finish, Air and Water Temperatures using the formula below:
$q = kH \times (T_{water} - T_{air})$

Example Heat Output Calculation For:

- 1.0 tog, 14mm thick timber floor finish
- 150mm Pipe spacing
- 21°C Air temperature
- 40°C Water temperature

Using the above table, the System Performance Factor for this Floor Finish Resistance and Pipe Spacing is 3.29W/m²K.

$q = kH \times (T_{water} - T_{air})$
$q = 3.29 \times (40 - 21)$
$q = 3.29 \times 19$
$q = 62.5 W/m^2$

Water Temperature

The System Performance Factor can be used to calculate the Water Temperature required to produce a Specific Heat Output for any combination of Floor Finish and Air Temperature using the formula below:
$T_{water} = (q / kH) + T_{air}$

Example Water Temperature Calculation For:

- 55W/m² Design Heat Load
- 0.15 tog, 4mm thick vinyl floor finish
- 150mm Pipe spacing
- 22°C Air temperature

Since the specific kH value for 0.15 tog floor finish resistance is not provided in the table, it is recommended to use the kH value for the next highest tog value. In this case, we will use the System Performance Factor for 0.5 tog, which is 4.03W/m²K.

$T_{water} = (q / kH) + T_{air}$
$T_{water} = (55 / 4.03) + 22$
$T_{water} = 13.65 + 22$
$T_{water} = 36°C$

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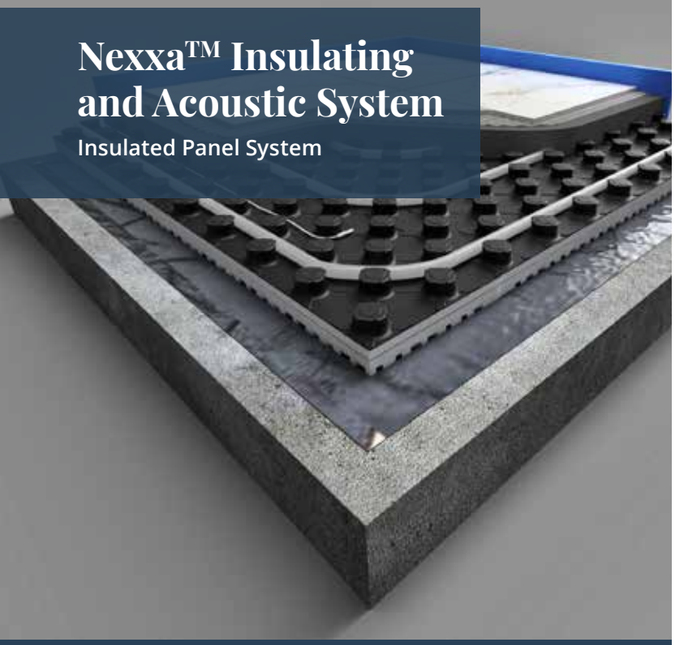
Nexxa™ Insulating and Acoustic System

Insulated Panel System



Overview

The Nexxa Insulating and Acoustic System features both thermal and acoustic properties, making it a perfect all-in-one water underfloor heating solution for floating screeded floors. It has been designed for use in large-scale, multi-residential buildings where reducing sound transmission between units is of paramount importance.

Its unique castellation panels offer a precise installation and its thermal insulation performance meets the requirements of separating floors defined within EN 1264 and ISO 11855.

✓ In-built insulation

With a build height of just 51mm, the system features 30mm of thermal and acoustic insulation.

✓ Ideal for use in multi-residential buildings

Helps to reduce sound transmission between units, offering 28dB (ΔL W,R) reduction to impact sound.

✓ Secured heating pipe

The system holds the pipe at the correct level prior to screeding to ensure there are no hot spots.

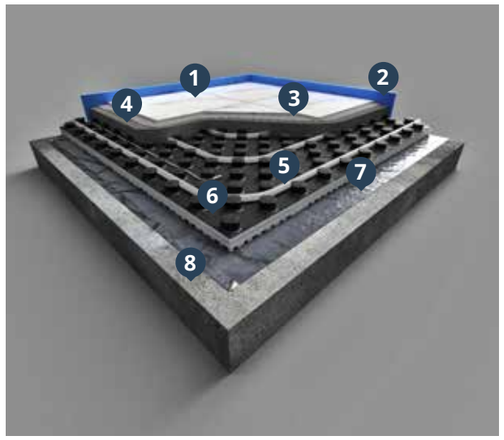
Scan to find out more!

SAFETY Net Installation-Guarantee™

LIFETIME LIMITED WARRANTY Warmup

Warmup PE-RT Underfloor heating pipe – Lifetime Warranty

Typical Floor Build-Up



1	**Floor Finish**
2	**Perimeter Strip** *To allow for differential movement between finished floor level and walls*
3	**Flexible Adhesive**
4	**Screed layer**
5	**Warmup PE-RT Pipe**
6	**Nexxa™ Insulating and Acoustic Panels**
7	**Damp Proof Membrane (DPM)** *To prevent water ingress*
8	**Concrete subfloor**

Technical Specification

Warmup Nexxa Insulating and Acoustic Panel			
Product Code	NEX-30	**Thermal Conductivity @ 10°C**	0.04 W/mK
Dimensions	1450 x 850 mm	**R-Value**	0.75 m² K/W
Thickness	51 mm	**Fire Class EN 13501-1**	E
Impact sound reduction ΔL W,R	28 dB		

Frequently Asked Questions

What kind of project is the Nexxa Insulating and Acoustic System suitable for?

The Warmup Nexxa Insulating and Acoustic System has been developed with multi-residential buildings in mind. The system's innovative soundproofing qualities can reduce sound transmission between units.

What is the thermal insulation performance of the Nexxa Insulating and Acoustic System?

The Nexxa Insulating and Acoustic System's thermal insulation performance meets the requirements of separating floors defined within EN 1264 and ISO 11855 and it will provide 28dB (ΔL W,R) reduction to impact sound.

What is the build height of the Nexxa Insulating and Acoustic System?

With a build height of 51mm, the Nexxa Insulating and Acoustic System's innovative construction includes 30mm of in-built high-quality insulation.

Does the Nexxa Insulating and Acoustic System reduce screed depths?

The unique design of the system features castellated panels which hold the heating pipe at the correct level prior to screeding to ensure there are no hot spots. The system also facilitates a reduced screed depth, minimising structural load and material costs.

Does the Nexxa Insulating and Acoustic System come with a warranty?

Yes, this system comes with Warmup's renowned SafetyNet Installation Guarantee which protects the installer against any accidental damage to the heating pipes during installation.

Installation manual for Warmup Nexxa™ Hydro System. Always refer to the installation manual prior to commencing your project.

Scan to find out more!

System Performance Stats

System Performance Factor, kH - W/m²K					
Floor Finish Resistance	tog	0.00	0.50	1.00	1.50
Pipe Spacing	100mm	6.08	4.56	3.65	3.04
	150mm	5.19	4.03	3.29	2.78
	200mm	4.47	3.57	2.98	2.55
	250mm	3.87	3.18	2.70	2.34
	300mm	3.37	2.84	2.45	2.15

More detailed tables spanning from 0.00 tog to 3.00 tog at 0.25 tog increments are available in the system manual.

Note: The Table above assumes that the pipe is placed within a standard 65mm Sand & Cement Screed, for other structural floor compositions, please use our Specification Tools and Services.

In the formulae below:

q = Specific Heat Output, W/m²
kH = System Performance Factor, W/m²K
T_{water} = Mean Water Temperature, °C
T_{air} = Room Air Temperature, °C

Heat Output

The System Performance Factor can be used to calculate the Heat Output for any combination of Floor Finish, Air and Water Temperatures using the formula below:
$q = kH \times (T_{water} - T_{air})$

Example Heat Output Calculation For:

- 1.0 tog, 14mm thick timber floor finish
- 150mm Pipe spacing
- 21°C Air temperature
- 40°C Water temperature

Using the above table, the System Performance Factor for this Floor Finish Resistance and Pipe Spacing is 3.29W/m²K.

$q = kH \times (T_{water} - T_{air})$
$q = 3.29 \times (40 - 21)$
$q = 3.29 \times 19$
$q = 62.5W/m^2$

Water Temperature

The System Performance Factor can be used to calculate the Water Temperature required to produce a Specific Heat Output for any combination of Floor Finish and Air Temperature using the formula below:
$T_{water} = (q / kH) + T_{air}$

Example Water Temperature Calculation For:

- 55W/m² Design Heat Load
- 0.15 tog, 4mm thick vinyl floor finish
- 150mm Pipe spacing
- 22°C Air temperature

Since the specific kH value for 0.15 tog floor finish resistance is not provided in the table, it is recommended to use the kH value for the next highest tog value. In this case, we will use the System Performance Factor for 0.5 tog, which is 4.03W/m²K.

$T_{water} = (q / kH) + T_{air}$
$T_{water} = (55 / 4.03) + 22$
$T_{water} = 13.65 + 22$
$T_{water} = 36°C$

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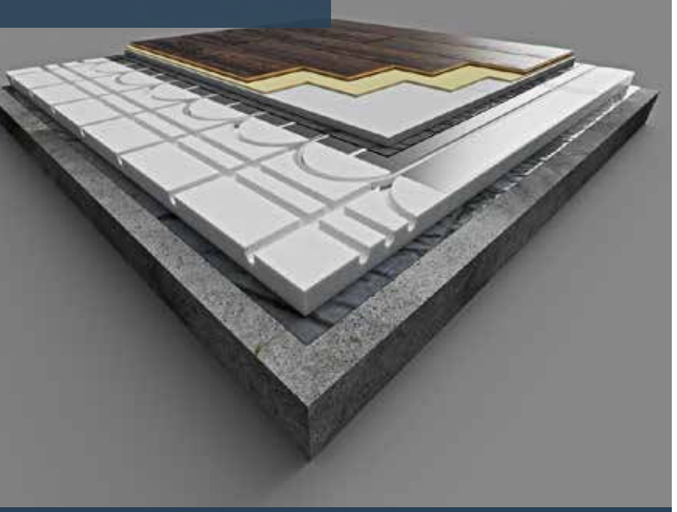
Contura™
Floating Floor System



Overview

The Warmup Contura™ Floating Floor System insulates and heats dry construction floating floors. Floor finishes can be laid over the Contura™ System immediately after installation unlike screeded floors which require weeks for the screed to cure and then dry out. Replacing a traditional screed with thinner and lighter dry flooring panels significantly reduces the heated floor mass.

Consequently the Contura™ System responds faster to heating demands than traditional screed systems. This faster warm up and cool down time is recognised within SAP with the calculated energy usage reducing as a result.

✓ No Screeding Required

The Contura™ system is a completely dry system with no screeding required so there is no waiting time for a screed to dry.

✓ Fast Heat-up Response

Contura™ System responds faster to heating demands than traditional screeded systems. This faster warm up and cool down time is recognised by SAP.

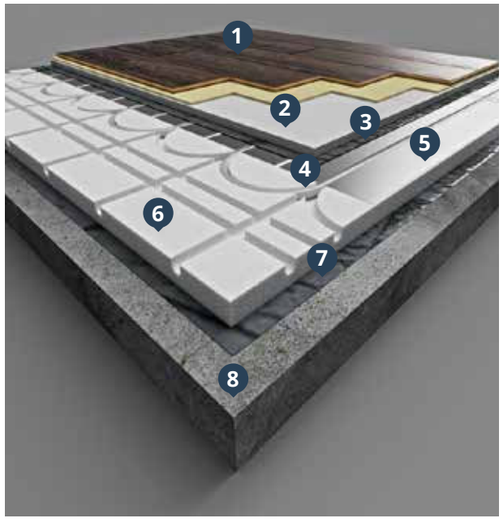
✓ Choice Of Boards

Comprehensive choice of board thicknesses from 30mm - 100mm (in 10mm increments) available to match individual requirements.

Scan to find out more!

Warmup PE-RT Underfloor heating pipe – Lifetime Warranty

Typical Floor Build-Up



1	**Floor Finish**
2	**Floating Floor Deck**
3	**Vapour Control Layer (VCL)** *To provide a slip plane for the flooring above*
4	**Warmup 16mm Pipework**
5	**Warmup Contura™ Diffusion Plate**
6	**Warmup Contura™ Panel**
7	**Vapour Control Layer (VCL)** *To prevent the insulation absorbing moisture from the screed*
8	**Concrete subfloor**

Technical Specification

Warmup Contura™			
Product Code	WHS-CO-P2030	**Thermal Conductivity @ 10°C**	0.035 W/mK
Dimensions	1.2m x 1.2m	**R-Value**	0.85 m²K/W
Thickness	30, 40, 50, 60, 70, 80, 90, 100mm	**Fire Class EN 13501-1**	F
Compressive Strength @10%	150 kPa		

Frequently Asked Questions

What is the Contura Floating Floor System?

The Contura™ System is a screedless hydronic underfloor heating (UFH) solution designed for use with floating floor finishes over a concrete or solid wooden subfloor. It features aluminium diffusion plates for optimal heat distribution, and can be installed within new builds or renovation projects, when sufficient levels of insulation are present.

What are the key benefits of the Contura System?

The key benefits of the Contura™ System include a comprehensive choice of board strengths and thicknesses available to match individual requirements, no need for screeding, and fast heat-up response times
as the diffusion plates allow for evenly distributed heat.

What types of floors can the Contura System be used with?

The Contura™ System is designed for use with floating floors above a wooden or concrete subfloor. It can be installed under almost any floor finish, in particular engineered wood and composite laminate wood.

What is the wattage per square metre output of the Contura System?

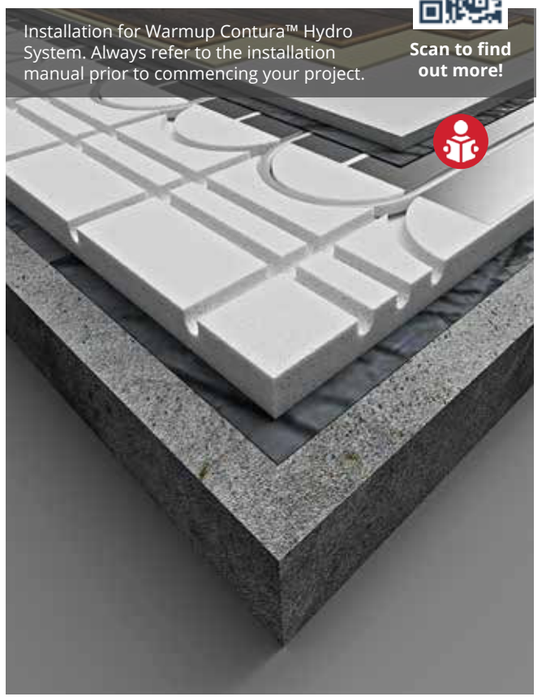
The Contura™ System typically has a wattage per square metre output of 75W/m², which is lower than that of traditional screeded floors.

What type of projects is the Contura System ideal for?

The Contura™ System is ideal for new builds on upper floors where insulation levels are higher, and can be used in both new builds or renovation projects.

What guarantee and warranty does Warmup offer?

Warmup offers a SafetyNet™ Installation Guarantee, which means that if you accidentally damage the underfloor heating pipe during installation, we will replace it with the same size and type of pipe for free.



System Performance Stats

System Performance Factor, kH - W/m²K					
Floor Finish Resistance	**tog**	**0.00**	**0.50**	**1.00**	**1.50**
Pipe Spacing	**200mm**	3.33	2.78	2.38	2.08

More detailed tables spanning from 0.00 tog to 3.00 tog at 0.25 tog increments are available in the system manual.

In the formulae below:

q = Specific Heat Output, W/m²
kH = System Performance Factor, W/m²K
T_{water} = Mean Water Temperature, °C
T_{air} = Room Air Temperature, °C

Heat Output

The System Performance Factor can be used to calculate the Heat Output for any combination of Floor Finish, Air and Water Temperatures using the formula below:
$q = kH \times (T_{water} - T_{air})$

Example Heat Output Calculation For:

- 1.0 tog, 14mm thick timber floor finish
- 200mm Pipe spacing
- 21°C Air temperature
- 40°C Water temperature

Using the above table, the System Performance Factor for this Floor Finish Resistance and Pipe Spacing is 2.38W/m²K.

$q = kH \times (T_{water} - T_{air})$
$q = 2.38 \times (40 - 21)$
$q = 2.38 \times 19$
$q = 45W/m^2$

Water Temperature

The System Performance Factor can be used to calculate the Water Temperature required to produce a Specific Heat Output for any combination of Floor Finish and Air Temperature using the formula below:
$T_{water} = (q / kH) + T_{air}$

Example Water Temperature Calculation For:

- 55W/m² Design Heat Load
- 0.15 tog, 4mm thick vinyl floor finish
- 200mm Pipe spacing
- 22°C Air temperature

Since the specific kH value for 0.15 tog floor finish resistance is not provided in the table, it is recommended to use the kH value for the next highest tog value. In this case, we will use the System Performance Factor for 0.5 tog, which is 2.78W/m²K.

$T_{water} = (q / kH) + T_{air}$
$T_{water} = (55 / 2.78) + 22$
$T_{water} = 20 + 22$
$T_{water} = 42°C$

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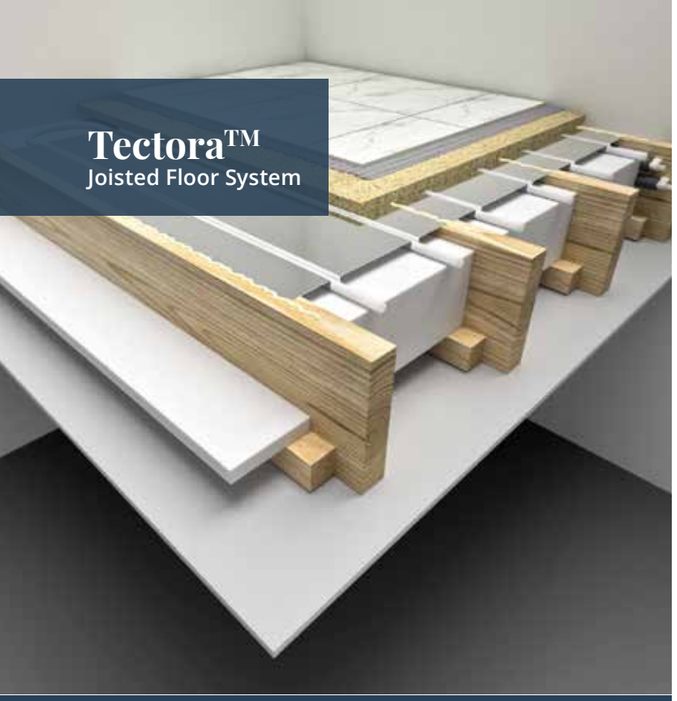


Tectora™
Joisted Floor System

Overview

The Warmup Tectora™ System is designed for use within battened or suspended timber floors, including TJI joist constructions. The aluminium diffusion plates fit perfectly across two battens or joists at 400mm centres to create a responsive heating system.

The Tectora™ Diffusion plates are ideal for timber floors. There are no wet trades involved and consequently no waiting for the installation to dry before the floor can be completed.

They are lightweight and easy to install creating a responsive efficient underfloor heating system with an even heat distribution. If you have irregularly spaced joists or battens the Econna™ System would be better suited.

✓ Tectora™ Highly Conductive

Tectora™ plates are highly conductive and efficiently diffuse the heat across the underside of the floor deck to create an even surface temperature without raising floor levels.

✓ Fast Heat-Up Response

System promotes fast heat-up response times improving system efficiency.

✓ Lightweight & Easy To Install

Diffusion plates are lightweight and easy to install.

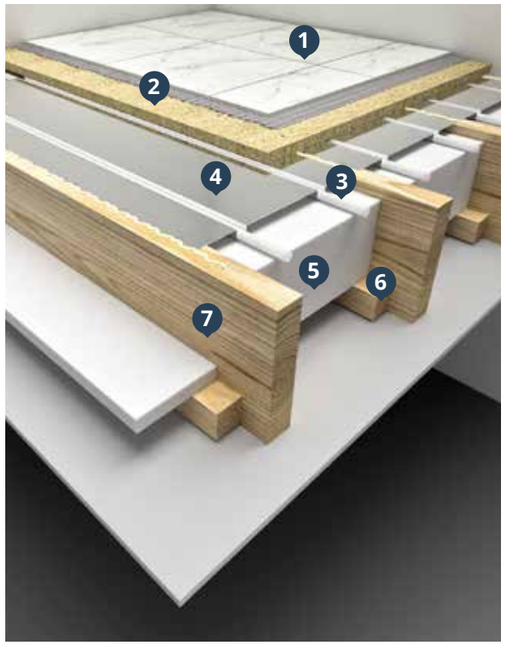
Scan to find out more!

SAFETY Net Installation-Guarantee

LIFETIME LIMITED WARRANTY Warmup

Warmup PE-RT Underfloor heating pipe – Lifetime Warranty

Typical Floor Build-Up



1	**Floor Finish**
2	**Structural Floor Deck**
3	**Warmup 16 mm PE-RT Pipe**
4	**Warmup Tectora Diffuser Plate**
5	**Rigid Insulation**
6	**Supporting Battens**
7	**Timber Joists, at 400mm Centres**
8	**Timber Joist**

Technical Specification

DIFFUSION PLATES - TECHNICAL SPECIFICATION			
Code	**Dimensions**	**Thickness**	**Pipe Size**
WHS-TE-ALUDP1 (Twin groove plate)	390 x 1000mm	0.5mm	16mm pipe

Frequently Asked Questions

What is the Tectora Joisted Floor System?

The Tectora Joisted Floor System is a hydronic underfloor heating system from Warmup that is designed for use within either battened or suspended timber floors, including TJI joist constructions. This system features insulation installed between floor joists, with the heating pipes inserted within diffusion plates fitted above for optimal heat distribution. It is a dry-fitted system, requiring no screeding and does not increase the depth of floor build-up. The diffusion plates are made from heat-diffusing aluminium which ensures that the heat is spread evenly throughout the room.

What type of floor finishes is the system suitable for?

The Tectora Joisted Floor System is suitable for almost any floor finish, but for installation under tiles as a final floor finish, additional layers of plywood or tile backer board may be required to create a rigid base. The system is also compatible with all Warmup 16mm heating pipes.

What is the Safety Net Installation Guarantee?

The Safety Installation Guarantee from Warmup guarantees that if you accidentally damage the underfloor heating pipe during installation, they will replace it with the same size and make of pipe for free. This guarantees a safe and secure installation of the system and provides peace of mind for the installer.

How is the system installed?

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. Variable height floor battens are employed to create a void of between 50 to 100mm, which the heating pipes are inserted into.

What type of heating pipes are compatible with the system?

The system is suitable for use with all Warmup 16mm heating pipes. This ensures that the pipes are able to optimally spread the heat throughout the room.

Does the system increase the floor build-up?

No, the system does not increase the floor build-up as all components are installed without the need for additional screeding. This makes the system an ideal choice for projects where floor build-up is an important factor.

System Performance Stats

System Performance Factor, kH - W/m²K					
Floor Finish Resistance	tog	0.00	0.50	1.00	1.50
Pipe Spacing	200mm	2.84	2.43	2.12	1.88

More detailed tables spanning from 0.00 tog to 3.00 tog at 0.25 tog increments are available in the system manual.

Note: The Table above assumes that the pipe is placed within a standard 65mm Sand & Cement Screed, for other structural floor compositions, please use our Specification Tools and Services.

In the formulae below:

q = Specific Heat Output, W/m²
kH = System Performance Factor, W/m²K
T_{water} = Mean Water Temperature, °C
T_{air} = Room Air Temperature, °C

Heat Output

The System Performance Factor can be used to calculate the Heat Output for any combination of Floor Finish, Air and Water Temperatures using the formula below:
$q = kH \times (T_{water} - T_{air})$

Example Heat Output Calculation For:

- 1.0 tog, 14mm thick timber floor finish
- 200mm Pipe spacing
- 21°C Air temperature
- 40°C Water temperature

Using the above table, the System Performance Factor for this Floor Finish Resistance and Pipe Spacing is 2.12W/m²K.

$q = kH \times (T_{water} - T_{air})$
$q = 2.12 \times (40 - 21)$
$q = 2.12 \times 19$
$q = 40W/m^2$

Water Temperature

The System Performance Factor can be used to calculate the Water Temperature required to produce a Specific Heat Output for any combination of Floor Finish and Air Temperature using the formula below:
$T_{water} = (q / kH) + T_{air}$

Example Water Temperature Calculation For:

- 55W/m² Design Heat Load
- 0.15 tog, 4mm thick vinyl floor finish
- 200mm Pipe spacing
- 22°C Air temperature

Since the specific kH value for 0.15 tog floor finish resistance is not provided in the table, it is recommended to use the kH value for the next highest tog value. In this case, we will use the System Performance Factor for 0.5 tog, which is 2.43W/m²K.

$T_{water} = (q / kH) + T_{air}$
$T_{water} = (55 / 2.43) + 22$
$T_{water} = 22.6 + 22$
$T_{water} = 44.6°C$

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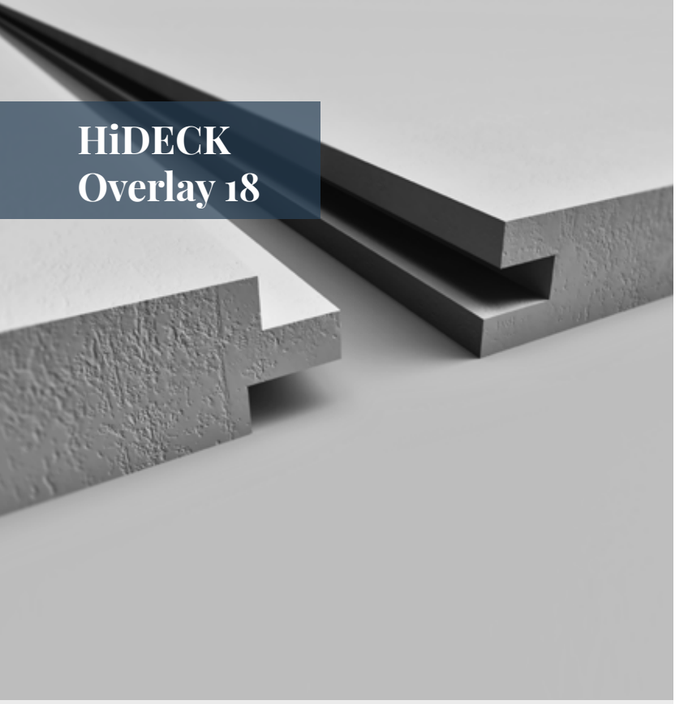
HiDECK Overlay 18



NHBC LABC warranty Premier Guarantee Accepted

SRL Performance Tested

BM TRADA ISO 9001: 2015

RD Generic Treatment

Overview

HiDeck™ Overlay 18 is a high density overlay board for underfloor heating applications. It is ideal for flooring applications incorporating underfloor heating due to its high thermal conductivity which provides rapid reaction times, saving on running costs. In addition, its density makes it perfect for a variety of acoustic applications.

HiDeck18™ is ideal for use over Warmup Contura™ and Ultra-12™ underfloor heating systems.

✓ Screed Replacement System

Screed replacement system Where applicable, can be used in place of traditional liquid screed or levelling compounds for a faster install.

✓ Low Thermal Resistance

Perfect for underfloor heating applications and is Robust Standard Detail Treatment FFT4 compliant.

✓ Suitable For All Subfloors

Suitable for all types of steel, concrete and timber floors.

Scan to find out more!

Technical Specification

Warmup HiDECK Overlay 18			
Product Code	WDO-HIDECK18	**Thermal Resistance**	0.045 m² K/W
Dimensions	0.6m x 1.2m	**Environmental Credentials**	GWP <5 ODP = 0
Thickness	18mm	**Fire Class**	A1
Type & Composition	T&G high density gypsum	**Weight**	21.6 kg/m² 15.55 kg/board

Made from 100% Recycled Gypsum

Underfloor heating is energy-efficient.

It is estimated that 17.5% of global CO_2 emissions are from energy use in buildings

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

Hydronic Pipes

Warmup PE-RT (Polyethylene of Raised Temperature Resistance) pipe is extremely flexible with excellent long-term stress resistant properties combined with long-term strength at elevated temperatures. Warmup PE-RT is available in both 16mm and 12mm diameters.

The pipe guarantees leak free performance with a smooth internal structure for improved flow, reduced pressure loss and deposit formation. Warmup PE-RT pipe is ideal for underfloor heating systems as well as being suitable for hot and cold water sanitary and distribution systems and various heating systems for domestic, commercial & industrial applications.

Warmup PE-RT pipe incorporates an EVOH oxygen diffusion barrier layer sandwiched within the wall of the pipe, protecting the EVOH layer from physical damage.

The EVOH layer which complies with DIN 4726 renders the pipe virtually impervious to oxygen and other gases. PE-RT pipes retain flexibility at freezing temperatures and therefore do not break in sub-zero conditions. Pipes are produced and tested according under an ISO 9001 quality management system to four standards, namely DIN 16833, DIN 4726, ISO 22391 and ISO 10508.

Warmup systems come with a choice of 3 types;

PE-RT, PE-Xa and MLCP This choice guarantees that you have the best possible system, tailored to your specific installation and budget.

Warmup PE-RT Water pipe carries a lifetime warranty for great Peace of Mind.

Our unique SafetyNet™ installation guarantee means that should you accidentally damage the pipe on site, one more pull exchange it free of charge.

✓ PE-RT Coil sizes 12mm x 1.6mm – 50m, 60m, 70m, 300m

PE-RT Coil sizes 16mm x 2.0mm – 25m, 50m - 120m (10m increments)

The Warmup PE-RT pipe is a 5 layer extrusion with an internal and external layer of raised temperature resistance polyethylene bonded to a protected EVOH oxygen barrier protected.

✓ PE-Xa Coil sizes 16mm x 2.0mm – 25m, 50m - 120m (10m increments), 300m, 400m

The Warmup PE-Xa Pipe is formed as a single extrusion with an adhesive layer and EVOH oxygen barrier on the outer surface.

✓ MLCP Coil Sizes 16mm x 2.0mm - 50m, 100m, 120m

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

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Warmup Wiring Centre

The Warmup Wiring Centre is a fast-to-install wiring centre for use as part of a complete Warmup heating system. It features a slimline design and provides connectivity for up to 9 underfloor heating zones, with 2 of the zones offering control of radiators and domestic hot water.

Scan to find out more!

CE UK CA

12 YEAR LIMITED WARRANTY Warmup

Warmup Wiring Centre

The Warmup Wiring Centre features market-leading technology to provide fast installation times and full integration when specifying Warmup's heating systems. Featuring a slimline, modern design, it discreetly houses a system's wiring and is ideal for use in both large-scale new-build projects and smaller home renovations.

The unique technology of the Wiring Centre helps conserve energy in homes by preventing Short Cycling on the boiler or heat pump - improving the heating's performance without shutting down the heat source like other wiring centres on the market. And with expert innovations such as individual commissioning switches for every zone and activity indicator lights for every output, the Wiring Centre makes the commissioning and diagnostics processes as hassle-free experience.

The Wiring Centre can provide connectivity for up to 9 heating zones, with 2 of the zones being configurable to control radiators and domestic hot water, instead of just 1. This makes it ideal for use in hybrid installations in large-scale projects with mixed heating requirements.

Technical Specifications

UFH Wiring Centre			
Code	WWC-09	**Max. total load**	2A resistive
Operating voltage	230V AC; 50Hz	**Fuse**	F 2A L 250V 5x20mm
Supply overload protection	3A (Use external 3A MCB's, RCBO's or fuses for this purpose)	**Max. Load Outputs**	**Boiler** 3A Resistive (Supply MUST be protected by 3A MCB/RCBO)
Classification of control according to protection against electric shock	Class I		**Pump** 0.6A Resistive (0.6A inductive resistance of the motor)
No. of cycles of actuation (M)	10000		**Valve** 0.2A Resistive
Type of disconnetion	Micro-disconnection		**Actuators** 0.1A Resistive
Additional features of actions	1.B	**Operating temperature**	0 - 45°C, T45
Pollution degree	2	**Wire size**	1.0 - 2.5mm²
Glow wire temperature	550 / 850°C	**Max. number of zone**	9
Rated impulse voltage	4KV	**Max. number of hybrid zones**	2 (HW/RADS)
Period of electric stress across insulating parts	Long period	**DIN-rail mounting**	Yes
		Commissioning switches	9
IP rating	IP20	**Delayed start**	90 seconds; switchable

Features

1	Slimline design.
2	9 independent UFH zones with 2 optional hybrid zones
3	Wiring terminals supplied already open, saving time during installation.
4	Activity indicator lights for every output, allowing for easier problem solving
5	Individual commissioning switches for each heating zone.
6	Compatible with DIN rails.

✓ Helps save energy

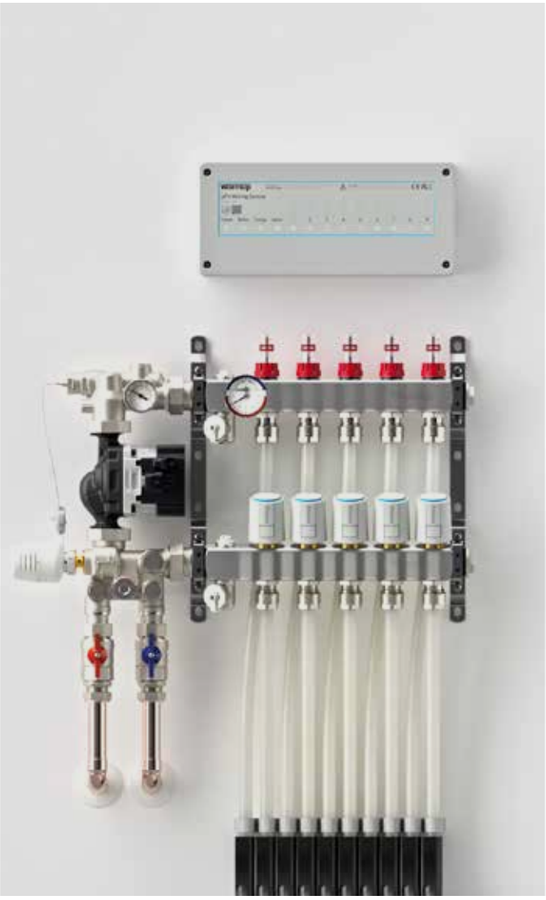
Prevents the heat source short cycling due to low flow on start-up, improving energy efficiency.

✓ Perfect for hybrid installs

Featuring two zones that support hybrid installs, the Wiring Centre is ideal for hybrid heating solutions.

✓ Optimised design

With an efficient design, the Wiring Centre helps save space whilst offering room for excess wires.



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WiFi Smart Thermostats

6iE™ WiFi
Smart Thermostat

Element™ WiFi
Smart Thermostat

Konekt™ Wireless
Thermostat with
Humidity Sensor

Tempo™
Programmable
Thermostat

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 £400 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.

FIND OUT MORE

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.

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.

SmartGeo™ learns your routines, but critically, it combines this with the location services built into smartphones to know when you are heading back, heading out or just hanging around, even if it's not planned.

So your home is automatically warm just as you arrive, and running efficiently when you're away, just like magic...

Different temperature modes.

Home

SmartGeo™ has learnt that you are likely to be home and can see that you are home so sets your comfort temperature.

Away

SmartGeo™ has learnt that you are likely to be out of the house and detects that you are away from home so turns the heating right down.

Eco Home

SmartGeo™ can see that you are home but has leant that you are not likely to use the heating at this time so sets an efficient yet still comfortable temperature. This is great for zoned heating systems.

Eco Away

SmartGeo™ has learnt that you are likely to be home at this time, but can see that you are away from home instead so sets a more efficient temperature based on your distance from the house.

Sleep

SmartGeo™ knows you are asleep and sets an optimum temperature for a perfect night's sleep, lowering your heart rate and helping your body relax.

6iE™ WiFi Thermostat

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

World's first UFH controller with a Smartphone touchscreen.

Scan to find out more!

Warmup 6iE™ WiFi Smart Thermostat

The 6iE™ from Warmup is the world's first floor heating thermostat with a Smartphone touchscreen, offering intuitive heat control to enhance the efficiency of underfloor heating. With a slimline design and available in two colour ways, it will look great in classic and contemporary homes and it can be personalised with custom photo backgrounds.

Quick to set-up, the 6iE features energy-saving technology to help reduce energy consumption by 25%, providing significant savings on energy bills.

6iE™ Onyx Black WiFi Smart Thermostat

6iE™ Bright Porcelain WiFi Smart Thermostat

Features & Benefits

1	With a premium, ultra-thin design (just 16 mm from the wall) the 6iE is the world's first UFH controller with a smartphone touchscreen for effortless control.
2	The 6iE can be personalised with photo backgrounds, allowing the end-user to make their thermostat an integrated part of their home.
3	Easy to setup, simply scan the 6iE's QR code using Warmup's MyHeating App to automatically connect to the WiFi network.
4	The 6iE is compatible with all Warmup underfloor heating systems, making upgrading a heating controller easier than ever.
5	The 6iE facilitates automatic heat functionality. It utilises SmartGeo™ technology to learn a user's routines, offering warmth at the right temperature, at the right time, automatically.
6	Featuring energy-saving technology, the 6iE helps find the most efficient heat settings for a property and can reduce energy usage by up to 25%.

✓ **Reduces Energy Use By Up To 25%***
Reduce energy use by up to 25% with the energy efficient MyHeating app technology.

✓ **Automatic Control Of Your Heating**
Unique SmartGeo™ automatically turns down the heating when you're out.

✓ **Reduce Energy Bills By Over £210****
Using less energy and switching to a cheaper tariff with Warmup AutoSwitch™.

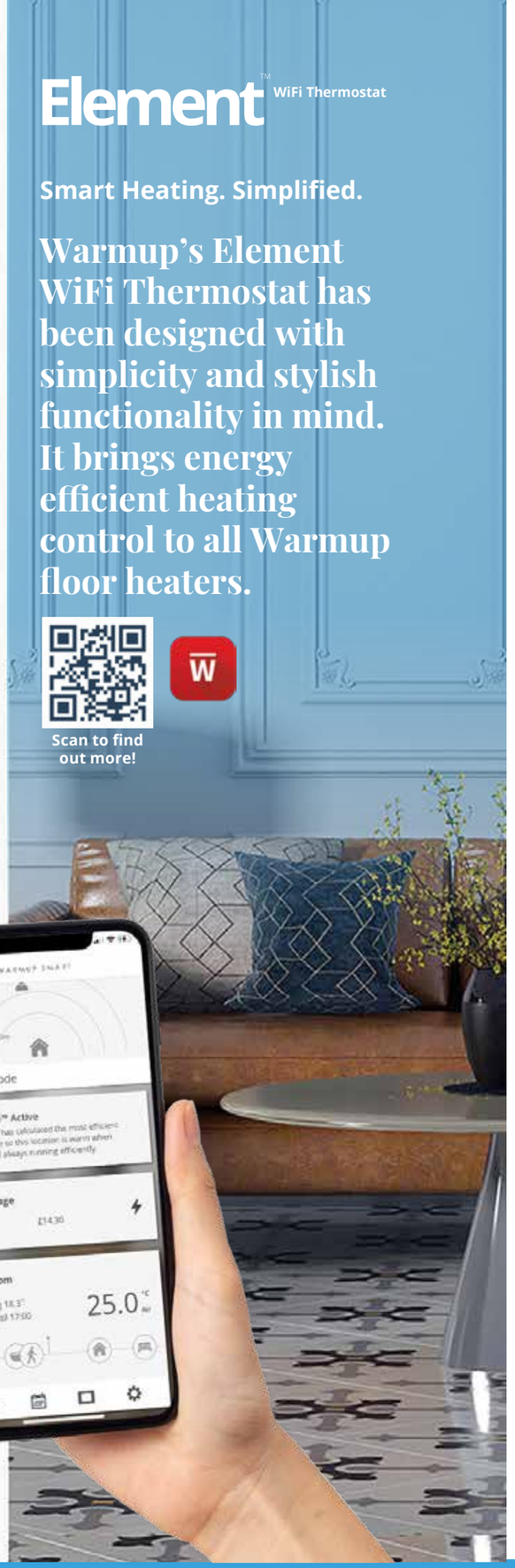
Technical Specification

Warmup 6iE Thermostat			
Max. Load	16A (3680W)	**Installation Depth**	50mm back box recommended (35mm minimum)
Max. Ambient Temperature	0 - 40°C	**IP Rating**	IP33
Operating Frequency	2401 - 2484MHz	**Compliance**	CE & UKCA Marked
Sensors	Air & Floor	**Warranty**	12-Year Warranty
Sensor Type	NTC 10K 3m Long (can be extended to 50m)	**Er-P Class**	IV
Dimensions	H/W/D): 90mm x 115mm x 39mm	**Approvals**	BEAB

Available on the App Store | GET IT ON Google Play | amazon alexa

BEAB | 12 YEAR LIMITED WARRANTY Warmup | CE UKCA

2.5+ Million Systems Installed In 72 Countries | British-Based Company | Lifetime Warranty* Offered | Won The Queen's Award, in 2020 | Help 24 / 7 / 365 | Exceptional Customer Support | Commitment To Environmental Sustainability



Warmup Element™ WiFi Thermostat

Warmup's Element™ WiFi Thermostat has been designed with simplicity and stylish functionality in mind. Combining Smart technology with easy-to-use functionality, the Element utilises simple touch buttons for accurate control of all Warmup underfloor heating systems. Its sleek, unobtrusive design will suit any home décor.

The Element can bring significant energy and cost savings to the end-user's home and it is compatible with Warmup's range of Smartphone apps.

Element™ WiFi Thermostat Dark

Element™ WiFi Thermostat Light

Features & Benefits

1	The Element utilises simple touch buttons for precise control of an underfloor heating system.
2	Offering quick set-up times, the Element can be automatically connected to a WiFi network using Warmup's MyHeating App.
3	The Element can help to conserve energy by up to 25%, saving significant amounts of money for the end-user.
4	The Element is compatible with all Warmup systems and helps to maximise the efficiency of underfloor heating.
5	Working with Warmup's SmartGeo™ technology to learn a user's routines and provide automatic heating, the Element makes heating a home an intuitive experience.
6	With energy-monitoring functionality and the ability to be controlled remotely, the Element can assist in finding the most efficient heat settings for a property.

✓ **Reduces Energy Use By Up To 25%***
Reduce energy use by up to 25% with the energy efficient MyHeating app technology.

✓ **Automatic Control Of Your Heating**
Unique SmartGeo™ automatically turns down the heating when you're out.

✓ **Reduce Energy Bills By Over £400****
Using less energy and switching to a cheaper tariff with Warmup AutoSwitch™.

Technical Specification

Warmup Element Thermostat			
Max. Load	16A (3680W)	**Installation Depth**	50mm back box recommended (35mm minimum)
Max. Ambient Temperature	0 - 40°C	**IP Rating**	IP33
Operating Frequency	2401 - 2484MHz	**Compliance**	CE & UKCA Marked
Sensors	Air & Floor	**Warranty**	12-Year Warranty with option to upgrade to Lifetime Warranty
Sensor Type	NTC 10K 3m Long (can be extended to 50m)	**Er-P Class**	IV
Dimensions	H/W/D): 86 x 86 x 16 mm	**Approvals**	BEAB
Display	1.8"		

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TEMPO PROGRAMMABLE THERMOSTAT

The Tempo™ Digital Programmable Thermostat features a simple, clear design and intuitive controls for all Warmup underfloor heating systems.

Scan to find out more!

Warmup 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 do not need it.

Suitable with all Warmup underfloor heating systems, the Tempo™ thermostat allows you to control the temperature of your underfloor heating to give you comfort, warmth and luxury to match your specific needs.

Tempo™ PB Digital Thermostat

Tempo™ PW Digital Thermostat

Features

1	Stylish and contemporary design.
2	Clear screen displaying program details.
3	Easy control with dial and sliders.
4	Suitable with all Warmup electric and water underfloor heating systems.
5	Available in Porcelain White and Piano Black.
6	Perfect for the whole house with the exception of the bathroom.

✓ Better
Easy-to-use interface and intuitive design. 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.

✓ Faster
Set-up takes just minutes to get right the first time. It will help avoid wasting energy and achieve savings on utility bills.

✓ Smarter
Its Proportional Adaptive Function ensures the room does not over-heat, reducing wasted energy whilst also protecting the components inside.

Technical Specification

Warmup Tempo Thermostat			
Max. Load	16A (3680W)	**Input Voltage**	230V +/- 15% at 50Hz
Max. Ambient Temperature	0 - 40°C	**IP Rating**	IP20
Screen Size	45 x 50mm	**Compliance**	CE & UKCA Marked
Sensors	Floor/Air	**Warranty**	3-Year Warranty with option to upgrade to Lifetime Warranty
Sensor Type	NTC 10K 3m Long (can be extended to 50m)	**Er-P Class**	IV
Dimensions	(H/W/D): 90 x 113 x 23mm (flush fit)	**Installation Depth**	35mm BACK BOX
Display Size	45 X 50mm	**Approvals**	BEAB

WARMUP 3 YEAR WARRANTY • 3 YEAR LIMITED WARRANTY Warmup • WARMUP 3 YEAR WARRANTY •

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

BEAB

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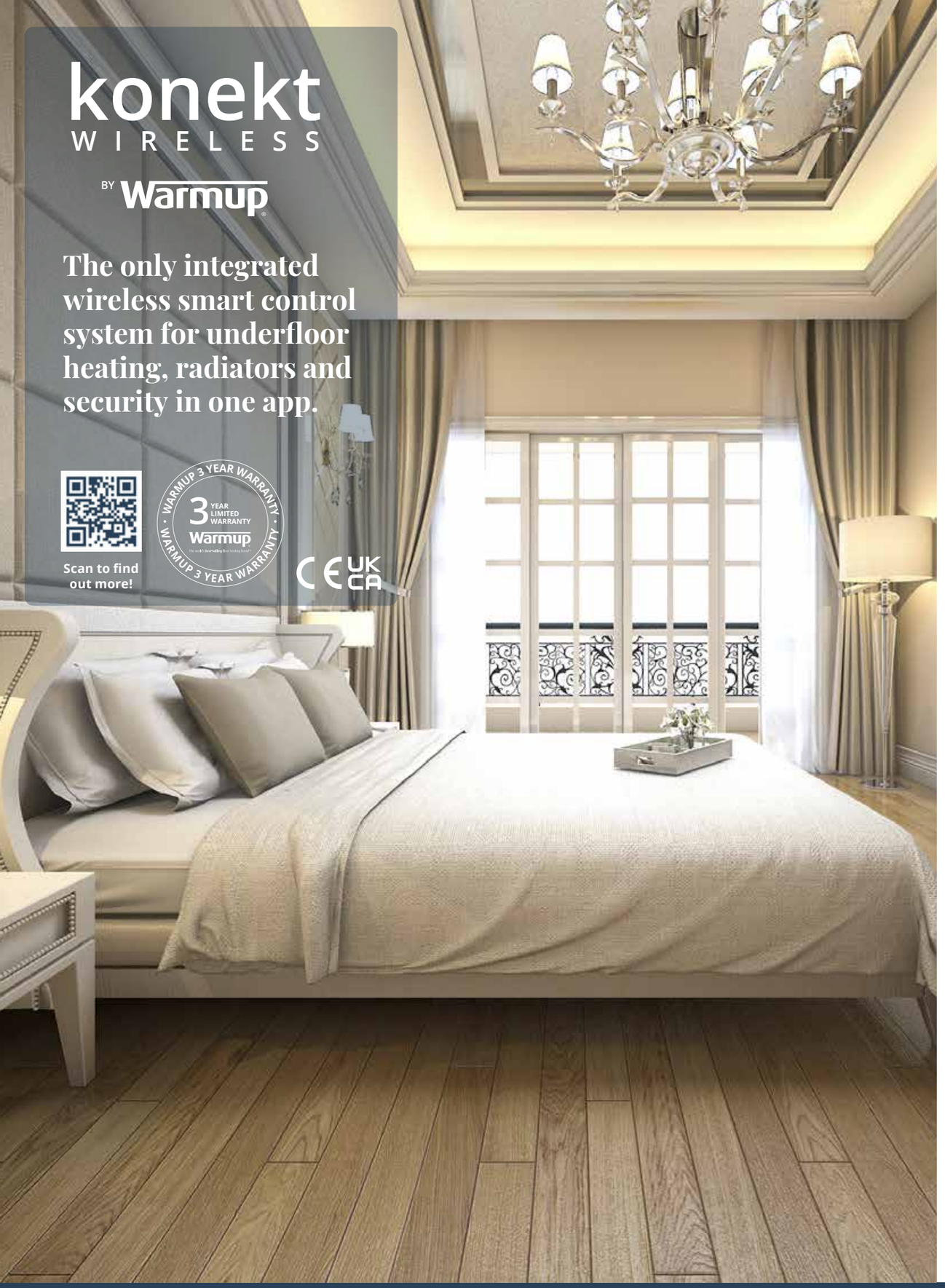

konekt™ Wireless Thermostat

The konekt Wireless Thermostat measures the temperature and humidity of a space to regulate the room temperature precisely. It can be paired with the konekt eTRV's for control of traditional radiators or with the Warmup Wiring Centre for control of water underfloor heating systems.

✓ Intelligent control

With three adjustable heating profiles, the thermostat can be remotely controlled using Warmup's konekt App or through other Smart home technologies.

✓ Easy-to-use and flexible installation

Due to its battery operation and radio communication, the konekt Wireless Thermostat can be positioned freely in the room.

✓ Boost mode for quick heat

The konekt thermostat features a boost mode which can heat up a space quickly for a short period of time.

Technical Specifications

Konekt Wireless Thermostat Humidity Sensor			
Product Code	KW-STATH	**Radio Frequency Band**	868.3 MHz / 869.525 MHz
Supply Voltage	2x 1.5 V LR03/ micro/AAA	**Maximum Radiated Power**	10 dBm max.
Current Consumption	50 mA max.	**Receiver Category**	SRD category 2
Battery Life	2 years (typ.)	**Typ. Open Area RF Range**	250 m
IP Rating	IP20	**Duty Cycle**	< 1 % per h/ < 10 % per h
Ambient Temperature	0 to 35 °C	**Software Class**	Class A
Dimensions (W x H x D)	55 x 55 x 23.5 mm / 86 x 86 x 25 mm (incl. frame)	**Method of Operation**	Type 1
Weight	100 g (incl. batteries)	**Degree of Pollution**	2

konekt™ Wireless eTRV

The eTRV offers modulating time and temperature control of rooms heated with radiators. The Konekt Wireless eTRV uses Smart technology to provide automatic heat control for radiators and can help reduce typical energy usage by up to 30%.

✓ Easy & intuitive set-up

Simply attach the eTRV to the radiator valve and connect to the konekt Wireless Smart Hub for quick heating control.

✓ Saves up to 30% on energy usage

The eTRV features energy-saving technology to provide automatic heating, conserving energy usage.

✓ Open-window detection

Working with the konekt Wireless Thermostat, the eTRV detects ventilation and environmental temperature and reduces the room temperature accordingly.

Technical Specifications

Konekt Wireless eTRV			
Product Code	KW-UKETRV	**Dimensions (W x H x D)**	56 x 115 x 67 mm
Current Consumption	100 mA max.	**Weight**	180 g (incl. batteries)
Supply Voltage	2x 1.5 V LR6/ mignon/AA	**Radio Frequency Band**	868.0-868.6 MHz, 869.4-869.65 MHz
Battery Life	2 years (typ.)	**Maximum Radiated Power**	10 dBm
Degree of Pollution	2	**Receiver Category**	SRD category 2
Method of Operation	Type 1	**Type Open Area RF Range**	250 m
Software Class	Class A	**Duty Cycle**	< 1 % per h/ < 10 % per h
IP Rating	IP20	**Valve Connection**	M30 x 1.5 mm
Ambient Temperature	0 to 50 °C	**Warranty**	3 Years

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konekt™ Wireless Smart Hub

The Smart Hub is the central element of Warmup's konekt range of wireless heat controls. It acts as the main interface between the server and other konekt devices and utilises secure AES 128 encryption.

✓ Voice control

The Smart Hub and other konekt wireless devices are compatible with Alexa and Google Assistant, allowing heat control through voice command.

✓ Simple to set up

The Smart Hub allows quick installation times, simply plug it in and connect it to the router before pairing the device with the konekt Wireless App.

✓ Automatic control

The Smart Hub facilitates remote and automated management of the konekt range, making controlling a property's heating easier than ever.

Technical Specifications

Konekt Wireless Smart Hub			
Code	KW-UKHUB	**Dimensions (W x H x D)**	118 x 104 x 26 mm
Operating voltage	100 - 240 V AC / 50 Hz	**Weight**	153 g
Supply Voltage	5 VDC	**Radio Frequency Band**	868.0-868.6 MHz, 869.4-869.65 MHz
Current Consumption	500 mA max.	**Maximum Radiated Power**	10 dBm max.
Power Consumption, Plug-in Mains Adapter	2.5 W max.	**Receiver Category**	SRD category 2
Standby Power Consumption	1.1 W	**Type Open Area RF Range**	400 m
Protection Class	Class III	**Duty Cycle**	< 1 % per h/ < 10 % per h
IP Rating	IP20	**Network**	10/100 MBit/s, Auto-MDIX
Ambient Temperature	5 to 35 °C	**Warranty**	3 Years

konekt™ Wireless Boiler 2-Channel Switch

The konekt Boiler Switch can be used as a heat demand relay for controlling heating pumps in connection with konekt eTRV's, for temperature control of radiators or, with the konekt Wiring Centre, for control of water underfloor heating systems.

✓ Energy-efficient technology

The Boiler Switch reliably switches heating pumps, circulation pumps, boilers, electrical radiators and other loads via two channels for easy temperature regulation.

✓ Quick installation

The Boiler Switch can be easily mounted to the wall using the screws provided for a hassle-free installation.

✓ Automatic control

Pair the Boiler Switch to the konekt Wireless Smart hub to enable control of hot water systems and enjoy automatic control through the konekt Wireless App. .

Technical Specifications

Konekt Wireless Boiler 2-Channel Switch			
Code	KW-BLR2CH	**Radio Frequency Band**	868.0 MHz - 868.6 MHz 869.4 MHz - 869.65 MHz
Supply Voltage	230 V / 50 Hz	**Maximum Radiated Power**	10 dBm max.
Current Consumption	16 A max.	**Receiver Category**	SRD category 2
Standby Power Consumption	< 0.2 W	**Typ. Open Area RF range**	250 m
Relay Changeover Contact: NO Contact:	1 - pole, µ contact 1 - pole, µ contact	**Max. Switching Capacity Switching Channel 1: Switching Channel 2:**	3680 W 1150W
Load Type	ohmic load	**Duty Cycle**	< 1 % per h/ < 10 % per h
Ambient temperature	0 to 50 °C	**IP Rating**	IP20
Dimensions (W x H x D)	120 x 130 x 30 mm	**Method of Operation**	Type 1
Weight	165 g	**Warranty**	3 years

konekt™ Wireless 10-Channel Wiring Centre 230V

The Wiring Centre provides UFH circulator and actuator control based on heating and cooling requirements of individual rooms. It can control up to 10 heating zones/15 actuators or 9 heating zones/14 actuators if also operating a UFH circulator.

Configure the wiring centre via the konekt wireless app or directly via the konekt wireless wall thermostat.

By using the most advanced control algorithms you can ensure constant and efficient utilisation of all kinds of water based floor heating systems and control your central heating by using the wiring centre to automatically provide heated water when and wherever required.

Thanks to the wireless radio control, the wiring centre requires minimal cabling and can be easy installed using the screws provided or mounted onto the DIN rail.

✓ Quick & Easy Installation

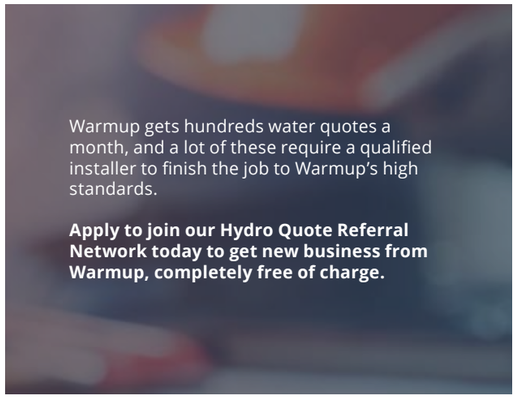
Easy to install via the supplied screws or DIN rail mounting.

✓ Floor Heating Control

Use the 10 heating zones to comfortably control your floor heating system and efficiently heat and cool rooms through their floor surfaces.

✓ Automatic Control

Control your konekt wireless systems from wherever you are. The konekt wireless App allows you to control your heating from your smartphone.



Technical Specifications

Konekt Wireless 10-Channel Wiring Centre 230V			
Code	**KW-WC10CH**	**Dimensions (W x H x D)**	225 x 75 x 52 mm
Current Consumption	**6.3 A max.**	**Weight**	566 g
Supply Voltage	**230 V AC / 50 Hz**	**Nominal Load of All Actuators**	250 W max.
Switching Capacity Per Heating Zone	**1 A max.**	**Radio Frequency Band**	868.0-868.6 MHz, 869.4-869.65 MHz
Type of Disconnection	**micro**	**Cable Type and Cross Section**	Rigid, flexible cable, 0.75-1.5 mm²
Protection Class	**Class I**	**Maximum Radiated Power**	10 dBm
Type	**1.B.**	**Receiver Category**	SRD category 2
Withstand Voltage	**2500 V**	**Type Open Area RF Range**	270 m
PTI Value of Housing	**IIIb with 100 < CTI < 175**	**Duty Cycle**	< 1 % per h/< 10 % per h
IP Rating	**IP20**	**No. of Heating Zones**	10 / (9)
No. of Pumps	**1**	**No. of Actuators**	15 / (14)
Cable Cross Section of: Cable Bushing 1 Cable Bushing 2 Cable Bushing 3	**> 5.2 mm > 8.2 mm > 3.2 mm**	**Construction**	Independently mounted electronic regulation and control device, surface mount
Ambient Temperature	**0 to 50˚C**	**Warranty**	3 Years

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Water

Warmup Water Floor Heating Systems & Insulation

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Controls

Warmup Smart WiFi & Programmable Thermostats

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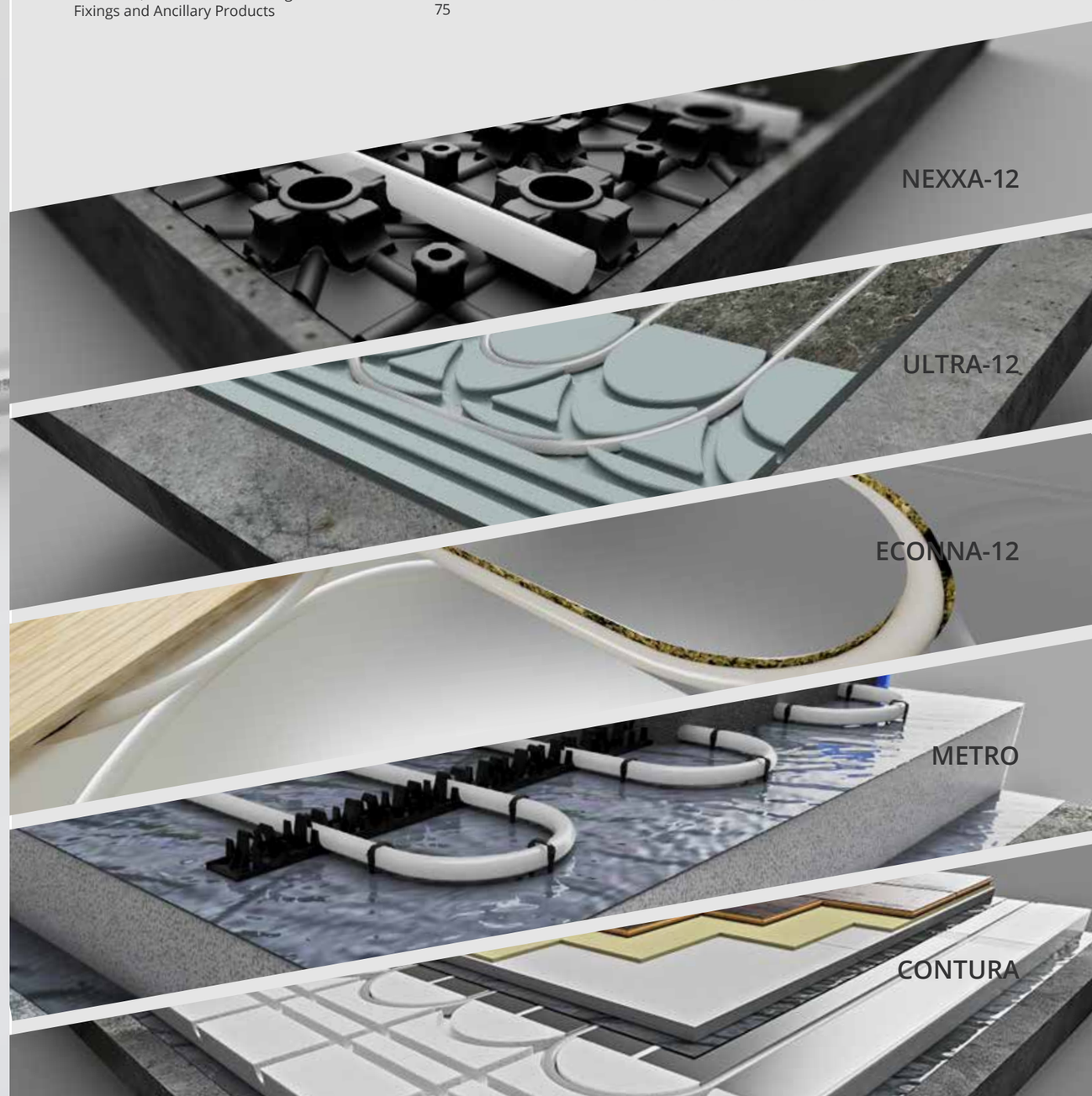


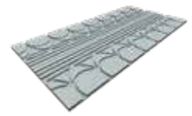
Warmup *VLo* Range

VLo - **Nexxa-12** Panel

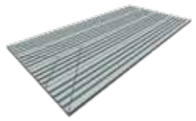
Product Code	Description	Price (Excl 20% VAT)
RNX-PANEL	Nexxa-12 - Peel & Stick Panel - 16mm x 650mm x 1050mm	£10.58

VLo **Ultra-12** Panels

ULTRA12-SP-PANEL



ULTRA12-CP-PANEL



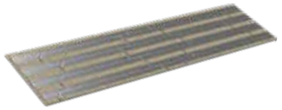
ULTRA12-SS-PANEL

ULTRA12-CS-PANEL

ULTRA12-PP-PANEL

Product Code	Description	Price (Excl 20% VAT)
ULTRA12-SP-PANEL	Ultra-12 - Straight Panel - 18mm x 600mm x 1200mm	£30.08
ULTRA12-CP-PANEL	Ultra-12 - Curve Panel - 18mm x 600mm x 1200mm	£19.86
ULTRA12-SS-PANEL	Ultra-12 - Straight Service Panel - 18mm x 600mm x 1200mm	£19.86
ULTRA12-CS-PANEL	Ultra-12 - Curve Service Panel - 18mm x 600mm x 1200mm	£19.86
ULTRA12-PP-PANEL	Ultra-12 - Plain Panel - 18mm x 600mm x 1200mm	£16.63

VLo - **Econna-12** Panel



Product Code	Description	Price (Excl 20% VAT)
EC-PANEL	VLo Econna-12 - P5 T&G Chipboard - 100µm Aluminium Diffuser - 150mm Centres - 22mm x 600mm x 2400mm	£91.06

Forte™ - Ties for Pipe on Mesh system

Product Code	Description	Price (Excl 20% VAT)
WHS-FO-TIE	Forte - Zip Ties (Pack of 100)	£1.68

Clypso™ Staple Gun & clips

WHS-CL-T40

WHS-CL-FIXER

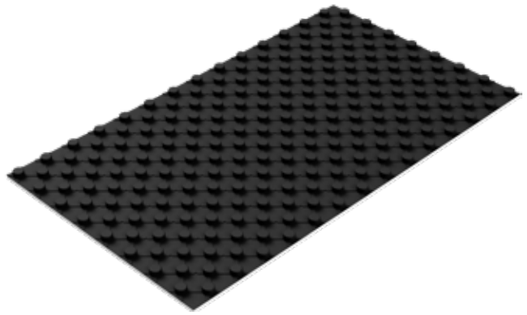
WHS-CL-T60

Product Code	Description	Price (Excl 20% VAT)
WHS-CL-T40	Clypso - Staples - 40mm (Pack of 300)	£10.21
WHS-CL-T60	Clypso - Staples - 60mm (Pack of 300)	£10.21
WHS-CL-FIXER	Clypso - Staple Gun	£246.13

Metro™ Rails

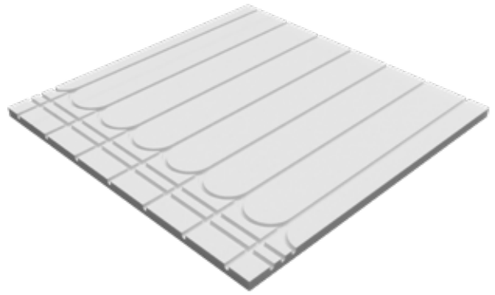
Product Code	Description	Price (Excl 20% VAT)
WHS-MT-RAIL01	Metro - Rail - 1m	£2.37

Nexxa™ Panel



Product Code	Description	Price (Excl 20% VAT)
WHS-TL-ALU10	Nexxa Panel - 10mm EPS insulation - 31mm x 850mm x 1450mm	£12.86
NEX-30	Nexxa Panel - Insulating & Acoustic - 51mm x 850mm x 1450mm	£32.00
NEX-P&S	Nexxa-12 - Peel & Stick Panel - 30mm x 850mm x 1450mm	£23.00

Contura™ Panel

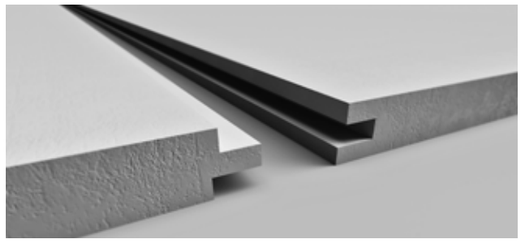


Product Code	Description	Price (Excl 20% VAT)
WHS-CO-P2030	Contura Panel - 150kPa EPS - 200mm Centres - 30mm x 1200mm x 2400mm	£18.60

Tectora™ Aluminium Diffuser

Product Code	Description	Price (Excl 20% VAT)
WHS-TE-ALUDP1	Tectora Diffuser - Aluminium - 2 x 16mm Channels - 0.5mm x 390mm x 1000mm	£11.01

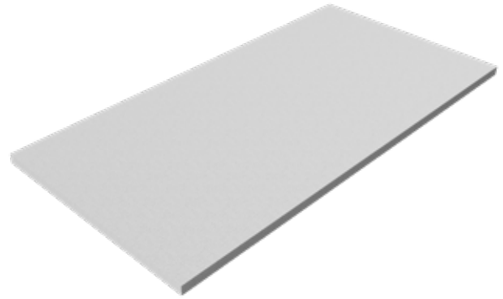
HiDECK Overlay 18



Product Code	Description	Price (Excl 20% VAT)
WDO-HIDECK18	Cellecta HiDECK Overlay 18 Panel - 0.45 tog - 18mm x 600mm x 1200mm	£35.37
WDO-HIDECK-ADH	Cellecta HiDECK Overlay 18 Adhesive - 1l	£34.62

EPS Insulation - 70kPa*

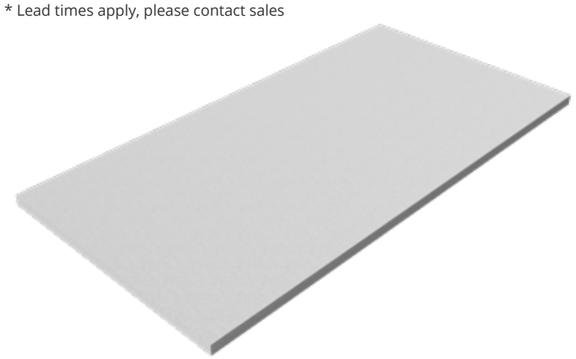
* Lead times apply, please contact sales



Product Code	Description	Price (Excl 20% VAT)
WHS-MT-B07025	Insulation - EPS - 70kPa - 0.038W/mK - 25mm x 1200mm x 2400mm (Pack of 12)	£86.76
WHS-MT-B07050	Insulation - EPS - 70kPa - 0.038W/mK - 50mm x 1200mm x 2400mm (Pack of 6)	£86.76
WHS-MT-B07075	Insulation - EPS - 70kPa - 0.038W/mK - 75mm x 1200mm x 2400mm (Pack of 4)	£86.76
WHS-MT-B07100	Insulation - EPS - 70kPa - 0.038W/mK - 100mm x 1200mm x 2400mm (Pack of 3)	£86.76

EPS Insulation - 100kPa*

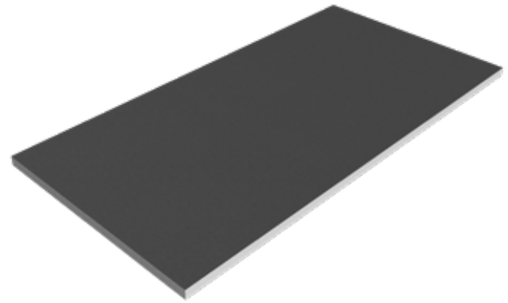
* Lead times apply, please contact sales



Product Code	Description	Price (Excl 20% VAT)
WHS-MT-B10025	Insulation - EPS - 100kPa - 0.036W/mK - 25mm x 1200mm x 2400mm (Pack of 12)	£143.88
WHS-MT-B10050	Insulation - EPS - 100kPa - 0.036W/mK - 50mm x 1200mm x 2400mm (Pack of 6)	£143.88
WHS-MT-B10075	Insulation - EPS - 100kPa - 0.036W/mK - 75mm x 1200mm x 2400mm (Pack of 4)	£143.88
WHS-MT-B10100	Insulation - EPS - 100kPa - 0.036W/mK - 100mm x 1200mm x 2400mm (Pack of 3)	£143.88

Insulation - PIR - 150kPa*

* Lead times apply, please contact sales



Product Code	Description	Price (Excl 20% VAT)
WHS-MT-INS25	Insulation - PIR - 150kPa - 0.022W/mK - 25mm x 1200mm x 2400mm	£47.60
WHS-MT-INS30	Insulation - PIR - 150kPa - 0.022W/mK - 30mm x 1200mm x 2400mm	£53.94
WHS-MT-INS40	Insulation - PIR - 150kPa - 0.022W/mK - 40mm x 1200mm x 2400mm	£62.42
WHS-MT-INS50	Insulation - PIR - 150kPa - 0.022W/mK - 50mm x 1200mm x 2400mm	£76.17
WHS-MT-INS60	Insulation - PIR - 150kPa - 0.022W/mK - 60mm x 1200mm x 2400mm	£90.98
WHS-MT-INS70	Insulation - PIR - 150kPa - 0.022W/mK - 70mm x 1200mm x 2400mm	£106.85
WHS-MT-INS75	Insulation - PIR - 150kPa - 0.022W/mK - 75mm x 1200mm x 2400mm	£107.91
WHS-MT-INS80	Insulation - PIR - 150kPa - 0.022W/mK - 80mm x 1200mm x 2400mm	£115.33
WHS-MT-INS90	Insulation - PIR - 150kPa - 0.022W/mK - 90mm x 1200mm x 2400mm	£129.07
WHS-MT-INS100	Insulation - PIR - 150kPa - 0.022W/mK - 100mm x 1200mm x 2400mm	£142.82

Insulation Ancillaries*

* Lead times apply, please contact sales

Product Code	Description	Price (Excl 20% VAT)
WHS-X-POL1200	Polythene dpm for hydronic systems 1200g (4m x 25m)	£102.13
WHS-X-POL500	Polythene dpm for hydronic systems 500g (4m x 25m)	£86.11

2.5+ Million Systems Installed In 72 Countries | British-Based Company | Lifetime Warranty* Offered | Won The Queen's Award, in 2020 | Help 24 / 7 / 365 | Exceptional Customer Support | Commitment To Environmental Sustainability

Hydronic Pipes

PE-RT Pipe 12mm x 1.6mm

Product Code	Description	Price (Excl 20% VAT)
PERT-12x50	Pipe - PE-RT - 12mm x 1.6mm - 50m Coil	£25.40
PERT-12x60	Pipe - PE-RT - 12mm x 1.6mm - 60m Coil	£30.48
PERT-12x70	Pipe - PE-RT - 12mm x 1.6mm - 70m Coil	£34.42
PERT-12x300	Pipe PE-RT - 12mm x 1.6mm - 300m Coil	£126.44

PE-RT Pipe 16mm x 2.0mm

Product Code	Description	Price (Excl 20% VAT)
WHS-P-PERT-25	Pipes range -Pipe PE-RT 16mm x 2mm. Sold in lengths of 25m	£20.75
WHS-P-PERT-50	Pipes range -Pipe PE-RT 16mm x 2mm. Sold in lengths of 50m	£33.40
WHS-P-PERT-60	Pipes range -Pipe PE-RT 16mm x 2mm. Sold in lengths of 60m	£40.31
WHS-P-PERT-70	Pipes range -Pipe PE-RT 16mm x 2mm. Sold in lengths of 70m	£46.63
WHS-P-PERT-80	Pipes range -Pipe PE-RT 16mm x 2mm. Sold in lengths of 80m	£53.54
WHS-P-PERT-90	Pipes range -Pipe PE-RT 16mm x 2mm. Sold in lengths of 90m	£59.89
WHS-P-PERT-100	Pipes range -Pipe PE-RT 16mm x 2mm. Sold in lengths of 100m	£64.89
WHS-P-PERT-110	Pipes range -Pipe PE-RT 16mm x 2mm. Sold in lengths of 110m	£71.60
WHS-P-PERT-120	Pipes range -Pipe PE-RT 16mm x 2mm. Sold in lengths of 120m	£77.75
WHS-P-PERT-300	Pipe - PE-RT - 16mm x 2.0mm - 300m Coil	£188.22
WHS-P-PERT-400	Pipe - PE-RT - 16mm x 2.0mm - 400m Coil	£248.11

PE-Xa Pipe 16mm x 2.0mm

Product Code	Description	Price (Excl 20% VAT)
WHS-P-PEXA-25	Pipes range - Pipe PE-Xa 16mm x 2mm. Sold in lengths of 25m	£24.58
WHS-P-PEXA-50	Pipes range - Pipe PE-Xa 16mm x 2mm. Sold in lengths of 50m	£49.18
WHS-P-PEXA-60	Pipes range - Pipe PE-Xa 16mm x 2mm. Sold in lengths of 60m	£59.01
WHS-P-PEXA-70	Pipes range - Pipe PE-Xa 16mm x 2mm. Sold in lengths of 70m	£68.84
WHS-P-PEXA-80	Pipes range - Pipe PE-Xa 16mm x 2mm. Sold in lengths of 80m	£78.68
WHS-P-PEXA-90	Pipes range - Pipe PE-Xa 16mm x 2mm. Sold in lengths of 90m	£88.51
WHS-P-PEXA-100	Pipes range - Pipe PE-Xa 16mm x 2mm. Sold in lengths of 100m	£98.34
WHS-P-PEXA-110	Pipes range - Pipe PE-Xa 16mm x 2mm. Sold in lengths of 110m	£108.19
WHS-P-PEXA-120	Pipes range - Pipe PE-Xa 16mm x 2mm. Sold in lengths of 120m	£118.01
WHS-P-PEXA-200	Pipe - PE-Xa - 16mm x 2mm - 200m Coil	£189.68
WHS-P-PEXA-300	Pipe - PE-Xa - 16mm x 2mm - 300m Coil	£278.18
WHS-P-PEXA-500	Pipes range - Pipe PE-Xa 16mm x 2mm. Sold in lengths of 500m	£446.35

MLCP 16mm x 2.0mm

Product Code	Description	Price (Excl 20% VAT)
MLCP-50	Pipe - MLCP - 16mm x 2mm - 50m Coil	£41.19
MLCP-100	Pipe - MLCP - 16mm x 2mm - 100m Coil	£82.37
MLCP-120	Pipe - MLCP - 16mm x 2mm - 120m Coil	£95.05

**Available on special order*

Warmup S3 Manifold™

Product Code	Description	Price (Excl 20% VAT)
WHS-M-S3-02	Manifold - Stainless Steel - 2 Port	£111.95
WHS-M-S3-03	Manifold - Stainless Steel - 3 Port	£149.99
WHS-M-S3-04	Manifold - Stainless Steel - 4 Port	£170.39
WHS-M-S3-05	Manifold - Stainless Steel - 5 Port	£190.78
WHS-M-S3-06	Manifold - Stainless Steel - 6 Port	£213.60
WHS-M-S3-07	Manifold - Stainless Steel - 7 Port	£234.00
WHS-M-S3-08	Manifold - Stainless Steel - 8 Port	£254.38
WHS-M-S3-09	Manifold - Stainless Steel - 9 Port	£282.04
WHS-M-S3-10	Manifold - Stainless Steel - 10 Port	£297.59
WHS-M-S3-11	Manifold - Stainless Steel - 11 Port	£315.55
WHS-M-S3-12	Manifold - Stainless Steel - 12 Port	£339.18

Manifold Ancillaries

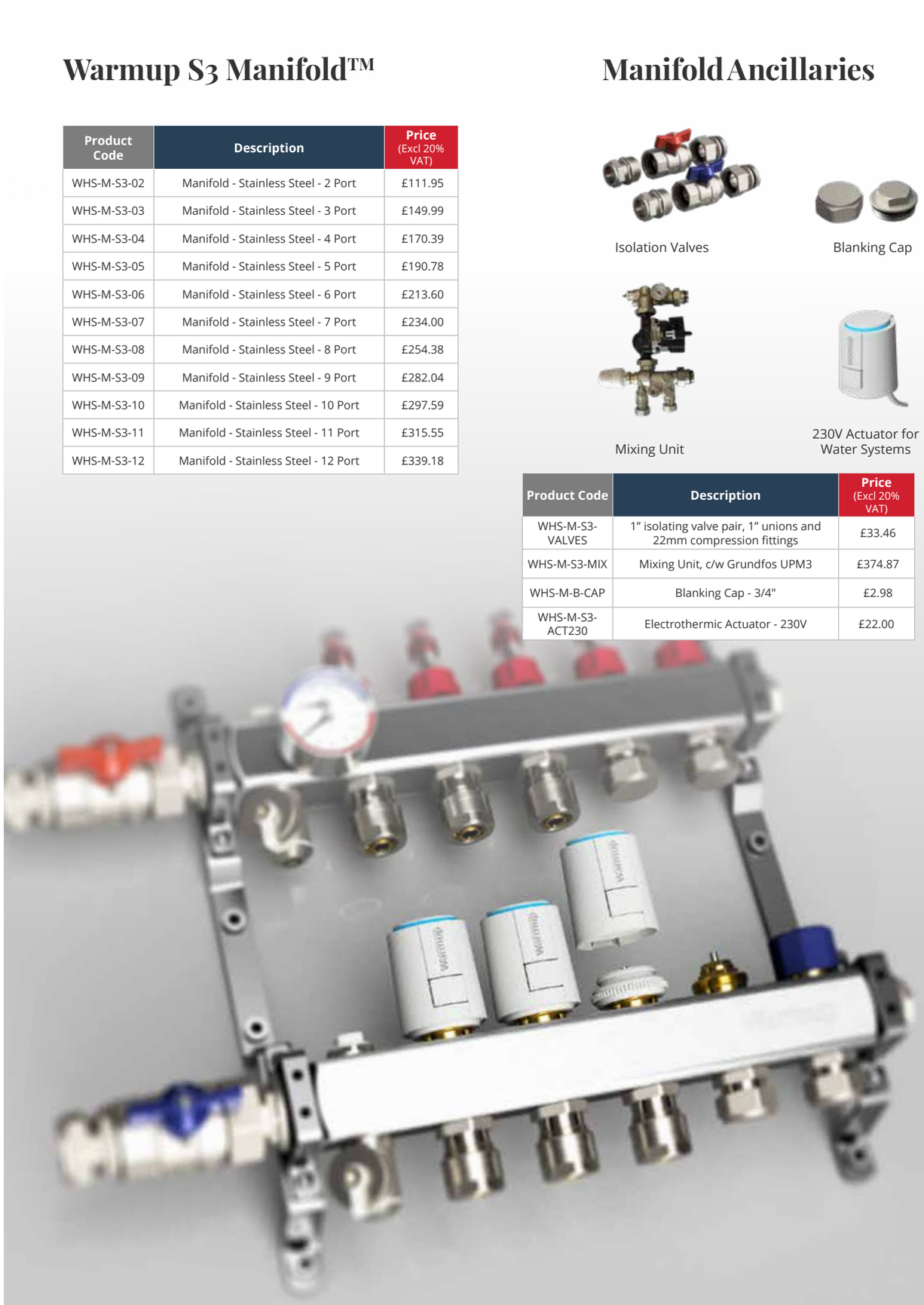
Isolation Valves

Blanking Cap

Mixing Unit

230V Actuator for Water Systems

Product Code	Description	Price (Excl 20% VAT)
WHS-M-S3-VALVES	1" isolating valve pair, 1" unions and 22mm compression fittings	£33.46
WHS-M-S3-MIX	Mixing Unit, c/w Grundfos UPM3	£374.87
WHS-M-B-CAP	Blanking Cap - 3/4"	£2.98
WHS-M-S3-ACT230	Electrothermic Actuator - 230V	£22.00



Pipe Connectors

Pipe Connector 12mm

Pipe Connector 15mm

Pipe Connector 16mm

¾" Eurocone Socket to ½" Male BSP

Double Eurocone Socket

Product Code	Description	Price (Excl 20% VAT)
ACC-CONNECT12x1.6	Pipe Connector - ¾" Eurocone to 12mm x 1.6mm	£2.25
WHS-P-CONNECT	Pipe Connector - ¾" Eurocone to 16mm x 2.0mm	£2.25
ACC-CONNECT15	Pipe Connector - ¾" Eurocone to 15mm x 1.8mm	£2.45
ACC-DEURSOCKET	¾" x ¾" Double Eurocone Socket	£3.05
ACC-REDUCERFITTING	¾" Eurocone Socket to ½" Male BSP	£2.80

Manifold Cabinets

Product Code	Description	Price (Excl 20% VAT)
ACC-cabinet600	In-wall Manifold Cabinet 110mm x 786mm x 600mm	£157.11
ACC-cabinet750	In-wall Manifold Cabinet 110mm x 786mm x 750mm	£168.57
ACC-cabinet900	In-wall Manifold Cabinet 110mm x 786mm x 900mm	£201.02
ACC-cabinet1050	In-wall Manifold Cabinet 110mm x 786mm x 1050mm	£220.66

Single Circuit Mixing

Product Code	Description	Price (Excl 20% VAT)
MFD-RM01-12	12mm Single Circuit Mixer	£506.45
MFD-RM01-16	16mm Single Circuit Mixer	£470.28

Curved Pipe Support

Pipe Clip

Water Perimeter Expansion Strip

Pipe Conduit

Perimeter Expansion Strip

2-Port Motorised Zone Valve

Product Code	Description	Price (Excl 20% VAT)
WHS-P-BEND12	Curved Pipe Support - 12mm	£2.25
WHS-P-BEND	Curved Pipe Support - 16mm	£1.50
ACC-PIPECLIPS12	Pipe Clip - 12mm (Pack of 12)	£7.17
WHS-SI-N16	Pipe Clip - 16mm (Pack of 100)	£12.00
DCM-E-25	Perimeter Expansion Strip - 10mm x 30mm x 25m (Roll)	£24.55
AC-EDGE25	Perimeter Expansion Strip - 8mm x 150mm x 25m (Roll)	£23.37
WHS-X-EDGE50	Perimeter Expansion Strip - 8mm x 150mm x 50m (Roll)	£33.80
CL-CONDUIT10	Pipe Conduit - 25mm x 10m	£11.93
WHS-CL-CONDUIT	Pipe Conduit - 25mm x 50m	£66.10
WHS-ZONE VALVE 2 PORT	2-Port Motorised Zone Valve - 22mm	£62.39

Primer, Leveller & Adhesives

Primer

Mapei Ultraplan

Mapei Ultrabond

ProFlex SP

ProFlex S2

Product Code	Description	Price (Excl 20% VAT)
ACC-PRIMER	Warmup Primer (1Lt bottle size)	£15.88
ACC-SELFLEVEL	25kg bag of Self-levelling compound	£21.38
ACC-GLUE	15kg drum of wet-bed dispersion adhesive	£95.45
ACC-S1ADHESIVE	Grey Flexible Tile Adhesive	£23.60
ACC-S2ADHESIVE	Flexible Fibre Reinforced Tile Adhesive (Bag weight: 20Kg, Colour: Grey)	£32.54

Tools and Accessories

Pipe Decoiler

Pipe Cutters - Ø≤25mm

Calibration Tool

Pipe Cutters - Ø≤36mm

Product Code	Description	Price (Excl 20% VAT)
WHS-P-DECOILER	Pipe Decoiler	£393.55
WHS-P-FORM	Calibration Tool for MLCP Pipe	£2.98
WHS-P-CUT25	Pipe Cutters - Ø≤25mm	£24.78
WHS-P-CUT36	Pipe Cutters - Ø≤36mm	£27.46

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

Warmup Thermostats

6iE™ WiFi Smart Thermostats

6IE-01-OB-DC

6IE-01-BP-LC

Product Code	Description	Price (Excl 20% VAT)
6IE-01-OB-DC	6iE Smart WiFi Thermostat - Onyx Black	£155.44
6IE-01-BP-LC	6iE Smart WiFi Thermostat - Bright Porcelain	£155.44

Element™ WiFi Smart Thermostats

ELM-01-OB-DC

ELM-01-WH-RG

Product Code	Description	Price (Excl 20% VAT)
ELM-01-OB-DC	Element WiFi Thermostat - Dark with Dark Chrome Bezel	£114.36
ELM-01-WH-RG	Element WiFi Thermostat - Light with Rose Gold Bezel	£114.36

Tempo™ Digital Thermostats

ELT PB

ELT PW

Product Code	Description	Price (Excl 20% VAT)
ELT PB	Tempo - Piano Black	£104.99
ELT PW	Tempo - Porcelain White	£104.99

Thermostat Ancillaries

Product Code	Description	Price (Excl 20% VAT)
Floor Probe NTC10K	Warmup NTC10K Floor Probe. 4.5mm tip diameter	£17.36
Floor Probe Conduit and Brass Cap	Floor Probe Conduit and Brass Cap	£17.36

Warmup Wiring Centre

WWC-09

Product Code	Description	Price (Excl 20% VAT)
WWC-09	9 independent UFH zones with 2 hybrid zones for radiator and hot water control	£68.09

konekt Smart Wireless Controls

KW-UKHUB

KW-BLR2CH

KW-STATH

KW-UKETRV

KW-WC10CH

Product Code	Description	Price (Excl 20% VAT)
KW-UKHUB	konekt Wireless - Smart Hub	£79.26
KW-BLR2CH	konekt Wireless - 2 Channel Interlock Relay	£110.27
KW-WC10CH	konekt Wireless - 10 Channel Manifold Control Centre	£299.45
KW-STATH	konekt Wireless - Wireless Thermostat with Humidity Sensor	£79.26
KW-UKETRV	konekt Wireless - Wireless eTRV	£52.47

Price per unit for all thermostats is based on a pack of 1.

MSTAT Manual Thermostat

Fused Spur with integral 30mA RCD

Manual Thermostat	Price (Excl. 20% VAT)
MSTAT - White Manual Thermostat	£74.97

Accessories	Price (Excl. 20%VAT)
RCD/Fused Spur - 30mA Residual Current Device	£55.95

2.5+ Million Systems Installed In 72 Countries | British-Based Company | Lifetime Warranty* Offered | Won The Queen's Award, in 2020 | Help 24 / 7 / 365 | Exceptional Customer Support | Commitment To Environmental Sustainability

Support

"The Best Floor Heating – Guaranteed"

To the exceptional team that built Warmup, these are not just any words that can be said by any company.

They are our promise – to you.

The warranties on our products are possible thanks to our commitment to Research and Development, on-going quality assurance from the ISO 9001 process and the testing requirements of the BEAB and other regulatory houses.

All of our systems come complete with working drawings, installation manuals and commissioning guidance.

In addition we have a suite of online tutorial videos but we appreciate that sometimes things just don't go according to plan and we ensure we are there to help during those moments as well.

Warmup Smart Care

Warmup Smart Care is an enhanced customer service experience that provides real-time personalised support for your home's heating system.

- ✓ **Improves your home's energy performance.** Helps assess energy usage and can save you money on your bills.
- ✓ **Rapid troubleshooting assistance** Reduces uncertainty when diagnosing issues with heating systems
- ✓ **For use with Warmup WiFi-connected thermostats** Compatible with the 6iE Smart WiFi Thermostat and Element WiFi Thermostat.

Scan to find out more!

Technical Support

We offer support at every stage of a project, from an initial enquiry right through to post completion occupancy and then for the lifetime of the system. **Support is available from a member of the Warmup team 24 hours a day 365 days a year by calling 0345 345 2288.**

Alternatively we offer online 'live chat' via our website between 08.30 and 17.30 hrs Monday to Friday.

If the heating system suffers accidental damage during installation, we will replace it free of charge under our SafetyNet™ Installation Guarantee

If a floor is damaged post installation, we offer a dedicated team of service engineers to identify and rectify the fault.

Warranty Durations

Warmup PE-RT & PE-Xa Underfloor heating pipe – Lifetime Warranty

Warmup MLCP Underfloor heating pipe – 50 year Warranty

Warmup WiFi Smart Thermostat 12 year Warranty

Warmup Manifold – 10 year Warranty

Warmup Actuators – 5 year Warranty

Warmup Thermostat 3 year Warranty

Warmup Pumps – 2 year Warranty Control Systems

Scan to find out more!

SAFETY Net™ Installation-Guarantee

If you accidentally damage the underfloor heating pipe during installation, return it to Warmup and we will replace it for FREE.

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 working drawings 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.

Scan to find out more!

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Warmup Trade Counter

Central London's only floor heating advisory centre, warehouse and 2hr delivery service, with early opening and late closing times

Advisory and Quote Service

Call or email for an appointment.
All your key questions answered by the experts, such as:

- Electric vs Water systems
- Energy efficiency, CO_2 emissions and running costs
- Most appropriate system for your project, e.g. low build or inscreed
- Layout drawings and install steps

Super Fast Ordering and Pick Up

Call ahead, check availability and order. Collect your items in 30 minutes, grab free coffee, tea and snacks and get hands on with our latest products.

Complementary solar powered charging available for electric and hybrid vans while you wait.

2 hour London Delivery

Check online or call us for costs and precise timings for your area.

Early Opening, Late Closing

7am opening and 6pm closing to suit your busy schedule.

Find out more

World Leaders in: Underfloor Heating Systems and Smart Control Thermostats

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