Warmup® Hydronic Underfloor Heating Systems

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

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

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

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



Flooring Types	Screed and Timber Suspended Concrete Floors and Batten Floors		Total-16
Tile & Stone	\checkmark	\checkmark	✓
Hardwood	1	✓	✓
Carpet	1	1	1
Laminate	1	✓	1
Vinyl	1	✓	1



Warmup[®] S3 Manifold

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



Features

High quality single piece stainless

Dual temperature/pressure gauge

connectors for easy commissioning The most energy-efficient actuators

drastically decreases setup time Accurate, reliable and easy to use

flow gauges from Taconova 3/4" Fill/drain valves fit standard tap

True 3 way mixing unit, with adjustable primary and secondary

Mixing unit compatible with traditional boilers, heat pumps

Latest Grundfos UPM3 'whisper quiet' circulator exceeds Ecodesign

Mixing control from 20°C to 60°C

commissioned correctly and easily

allowing screeds to be

steel construction

on the market

and much more

requirements

bypasses

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

Manifold Technical Data

Material: 304 Grade Stainless Steel

Ports Available: 2 - 12

Mixing Temperature: 20°C to 60°C

Max Operating Pressure: 6 Bar

Max Test Pressure: 10 Bar

Flow Gauge Scale: 0 - 5 l/min

Measuring Accuracy: ±10%

Port Centres: 50mm

Standard Pipe Fittings: 12x2mm and 16x2mm

Call us now 0345 345 2288 or visit www.warmup.co.uk



Warmup S3 System

Excellent engineering - where it is most needed

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

Warmup S3 Taconova Flow Gauges



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

Warmup S3 Thermometer / Pressure Gauge



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

Warmup S3 Manifolds

Code	Description	Price (Excl. VAT)
WHS-M-S3-02	2 port manifold	155.00€
WHS-M-S3-03	3 port manifold	180.00€
WHS-M-S3-04	4 port manifold	205.00€
WHS-M-S3-05	5 port manifold	230.00€
WHS-M-S3-06	6 port manifold	260.00€
WHS-M-S3-07	7 port manifold	283.00€
WHS-M-S3-08	8 port manifold	310.00€
WHS-M-S3-09	9 port manifold	342.00€
WHS-M-S3-10	10 port manifold	362.00€
WHS-M-S3-11	11 port manifold	384.00€
WHS-M-S3-12	12 port manifold	412.00€

Call us now 0345 345 2288 or visit www.warmup.co.uk

Warmup S3 Actuator 230V 1W

Information	Actuator Technical Data
Marmup	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
The new Warmup S3 actuator	Stroke: 4mm
uses less than half the energy of	IP Rating: IP54
in the UK.	Storage Temperature: -25 to 60°C

Warmup S3 Mixing Unit

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

Approval and Marking: VDE, CE

Warmup S3 Manifold Ancillaries

Code	Description	Price (Excl. VAT)
WHS-P-CONNECT	16mm x 2mm Pipe Connector	3.00€
WHS-P-CONNECT12	12mm x 2mm Pipe Connector	3.00€
WHS-M-S3-ACT230	230V Actuator	31.00€
WHS-M-S3-VALVES	Manifold valve kit - 1″ isolating valve pair, 1″ unions and 22mm compression fittings	44.00€
WHS-M-S3-MIX	Mixing Unit	520.00€





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

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

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

Features

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

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

All components are compatible and from a single source for reliability

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

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



HydroPack Kit Contents

The HydroPack Installation Kit is made up of			
Ō	16mm x 120m PE-RT pipe		
	Sinlge room 'A' rate energy efficient circulating pump/mixer control unit		
	Compression fittings x2		
2355	3iE™ Energy-Monitor Thermostat		
	Pipe clips x600		



Pipe cutter



Installation Instructions

Pump/mixing unit

Technical Specification

Compact bolt-on unit provides quick and easy installation

Easy to set-up with an adjustable temperature range of 35 $^{\rm o}{\rm C}$ to 65 $^{\rm o}{\rm C}$

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

Controls flow temperature to +/-2 $^\circ\mathrm{C}$ with changing boiler flow and return temperature

Maximum Static Pressure:	10 bar	
Maximum Temperature:	90 °C	
Adjustable Control Range:	35 to 65 °C	
Factory Pre-set:	35 °C (Minimum setting)	
Fail Safe Feature		



Installation Guide

(Refer to installation manual for complete instructions)

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

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

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

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



Spiral pipe layout

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



Serpentine pipe layout

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

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

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

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

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

Completing the job

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



Screed and Concrete Floors

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

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

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

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

Insulation Features

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

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

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







When PEX-A Pipe is used Other pipes carry 50 year warranty



(Refer to installation manual for complete instructions)

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

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

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

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

Completing the job

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

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





Screed and Concrete Floors

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

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

Features

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

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



Installation Guide

(Refer to installation manual for complete instructions)

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

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

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

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

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

Completing the job

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

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





Screed and Concrete Floors

The Tella Grid System uses a wire grid to which the underfloor heating pipework is attached using Warmup[®] plastic cable ties.

The wire grid is typically used to add structural support to the subfloor where extra strength is required due to high floor loadings.

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

Features

Wire grid provides best solution when a structural screed is required, particularly for high loads

The Tella Grid protects the integrity of the insulation from damage until the structural screed is laid



Installation Guide

(Refer to installation manual for complete instructions)

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

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

The Insulation boards are then laid and fixed to the subfloor throughout the room and covered with a plastic membrane before installing the Tella Grid.

Warmup's heating pipe is then laid out according to a predesigned pattern until your desired heated area is covered. The pipe should then be secured to the Tella Grid with plastic cable ties.

Attach the pipe to the flow connection on the manifold and conduct a pressure test to ensure the system is working correctly. The system should be left under pressure until screeded.

Completing the job

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

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





Screed and Concrete Floors

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

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

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

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

Features

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

Retains pipework prior to screeding.

Self-retaining system, no clips required.







When PEX-A Pipe is used Other pipes carry 50 year warranty

Installation Guide

(Refer to installation manual for complete instructions)

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

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

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

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

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

Completing the job

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

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



Warmup[®] Forte Grid System

Screed and Concrete Floors

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

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

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

Features

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

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



Installation Guide

(Refer to installation manual for complete instructions)

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

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

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

The Forte Grids are then laid over the plastic membrane.

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

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

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

Completing the job

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

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





The Econna Joisted Floor System is a composite 22mm wooden slotted floor with return ends designed to withstand heavy loads.

It is designed to fit on top of standard wood joists of 400mm to 600mm c/c max. This replaces the standard board in the floor construction.

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

Features

Pipe is built into the structural floor, allowing faster heat-up response times.

No screeding required.





When PEX-A Pipe is used Other pipes carry 50 year warranty

Installation Guide

(Refer to installation manual for complete instructions)

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

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

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

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

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

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

Completing the job

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

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

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



The Silva Joisted Floor System is installed in many refurbishment projects.

Joists traditionally tend to be installed at 400mm centres. However, Warmup[®] can supply a more bespoke system to suit individual properties with varying joist centres as required.

The Silva Joisted Floor System is suitable for almost any floor finish, in particular where the flooring is wood or engineered wood.

Features

Suitable for use under existing wooden floors

System installed between floor joists

Does not impact on floor heights

Lightweight screed provides fast heat-up response times



Installation Guide

(Refer to installation manual for complete instructions)

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

The Clypso insulation for the Silva Joisted Floor system is installed between the existing joists using battens or noggins to hold the insulation in place. The Clypso insulation should be fitted tight to the joists without any gaps and should cover the entire floor area,



1. Timber Floor Covering (18mm minimum)

7. Insulation



providing an insulated surface for pipe installation. Any holes or gaps that cannot be covered by the insulating panels should be filled using expanding foam.

The height of the Clypso Insulation panels should be set so that the top of the panels are in accordance with the system design, allowing for proper coverage of the pipe by the lightweight screed and to finish level with the joists.

In order to feed the pipe across a joist, a notch is cut into the top of the joist.

Once the Clypso Insulation panels are in place, the pipe circuits can be installed according to a predesigned pattern using a purposebuilt clip gun and Warmup clips.

Before the screed is poured, the Warmup pipe is attached to the manifold and pressure tested to ensure the system is working correctly; it is then left under pressure until the flooring process is complete.

Completing the job

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

The screed should be level with the top of the joists and must be allowed to dry naturally until full strength is reached before installing the floor covering.

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



Timber Suspended and Batten Floors

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

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

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

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

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

Features

Diffusion plates spread heat efficiently without increasing floor build-up System promotes fast heat-up response times No screeding required



SAFETY Net





When PEX-A Pipe is used Other pipes carry 50 year warranty

(Refer to installation manual for complete instructions)

Make a layout plan of your floor area by measuring your room and then subtract any fixtures (such as baths and cupboards). Required battens to support the insulation will need to be designed and installed by the flooring contractor and co-ordinated with the installer of the Tectora System.

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

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

Completing the job

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

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

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



Timber Suspended and Batten Floors

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

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

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

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

Features

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

Overlay system requires no screeding

System promotes fast heat-up response times







When PEX-A Pipe is used Other pipes carry 50 year warranty

(Refer to installation manual for complete instructions)

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

Ensure the installation area is dry and sealed to the elements and that you have a level floor surface. As the Contura Floating Floor System is installed directly onto a concrete base, install Warmup's polyethylene damp proof membrane, assess whether supplementary insulation is required. Insulation is an integral part of the Contura System, but may not fully comply with Building Regulations for new-build projects; additional insulation may be required, depending on the existing subfloor construction.

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

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

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

Completing the job

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

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

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





Insulation

Total-16 is a low build (16mm), no screed required, lightweight yet heavy-duty hydronic insulation system with inbuilt diffusion plate.

The system is designed for use with Warmup's 12mm PEX-A pipe, which is inserted into the insulation boards. Warmup's 12mm PEX-A pipe is at the heart of the low profile system because it is strong, flexible and kink resistant and it comes with our best warranty and guarantee.

With Total-16's build-up of only 16mm and the straight boards supplied with integrated aluminium heat diffuser plates, the installation time is significantly reduced. This makes Total-16 ideal for new-build and refurbishment projects where floor height is at a premium and installation speed is of the essence.

Total-16 is installed onto either concrete or wooden sub-floors and can be used under almost any floor finish, including solid and engineered wood, ceramic, stone floors as well as vinyl and carpet.

Total-16 is comprised of straight boards, with integrated aluminium plates, multi-feed boards and return boards. These boards are made of a high density EPS and can support 40 tonnes/m².

Features	Specification
Suitable for almost any floor finish, including tiles	Thermal conductivity: 0.034 W/mK @ 10° C
Ultra low weight - only 1.7 Kg for the straight, multi-feed and return boards	Compressive strength: 400kPa (40 tonnes/m²)
Ultra low height - only 16mm	Thermal output: Up to 111 W/m ²
Aluminium heat diffusion plates are pre-installed, reducing installation time	Straight boards are moulded at 150mm pipe centres
Can be supplied with or without return	





(Refer to installation manual for complete instructions)

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

Before commencing installation, assess whether supplementary insulation is required. Insulation is an integral part of the Warmup Total-16, but may not fully comply with Building Regulations for new-build projects.

Ensure the installation area is dry, level and sealed from the elements. In most cases Total-16 can be laid as a floating floor, but for tiled flooring or vinyl flooring in wet areas, the Total-16 boards must be fixed to the subfloor using Seal Adhesive or Glue (see p102).

When tiling on Total-16, the boards and aluminium plates must be primed using Warmup's WHS-X-Primer. For heavy footfall areas, tiling directly onto the Total-16 boards is not recommended.



Lay the Total-16 low profile system to match the layout plan. Carefully insert the PEX-A 12mm pipe into the pre-moulded groves until your desired heated area is covered.

Then attach the 12mm PEX-A pipe to the flow connection on the manifold - use the Warmup pipe bend support (WHS-P-BEND12) to hold the pipe at a 90° angle. Following a single meander pattern, install the pipe in the boards by pushing into the grooves of the heat diffuser plates. Finally, fix another pipe bend support to the return pipe and connect to the manifold.





Screed Replacement Board

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

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

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

Features

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

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

(Refer to installation manual for complete instructions)

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

Floor Cutaway - Based on Econna Installation



Dual Overlay Concrete with Glued Wood Floor



- 2. Fixed 8mm Chipboard Laver
- 3. Dual Over Lay Concrete Boards
- 4. Warmup® Pipe
- 5. Perimeter Strip
- 6. Decoupling Layer
- 7. Econna Underfloor Heating System



Dual Overlay Concrete with Resilient Floor

- 1. Resilient Floor Covering
- 2. Thinset fibre-reinforced screed
- 3. Dual Over Lay Concrete Boards
- 4. Warmup® Pipe
- 5. Perimeter Strip
- 6. Decoupling Layer
- 7. Econna Underfloor Heating System

Price Guide

Warmup[®] HydroPack

WARMUP HYDROPACK INSTALLATION KIT

E	CODE	DESCRIPTION	RRP (Excl. VAT)	PACK QTY
	WHS-HYDRO PACK-22	HydroPack Installation Kit for projects up to 22m ²	860.00€	1

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

	CODE	DESCRIPTION	RRP (Excl. VAT)	PACK QTY
WHS-M-S- RM01	WHS-M-S- RM01	A Rated Single Room / Zone Manifold with Pump / Mixing unit	650.00€	1
#7				

Warmup[®] Thermostats **4iE ENERGY-MONITOR THERMOSTAT**

	CODE	DESCRIPTION	RRP (Excl. VAT)	PACK QTY
21.5	4iE™ OB	Onyx Black Programmable Thermostat	200.00€	1
21.5	4iE™ CW	Cloud White Programmable Thermostat	200.00€	1

4iE +KIT

	CODE	DESCRIPTION	PRICE (Excl. VAT)	PACK QTY
	4iE Plus Kit	Warmup +Kit (for use with Warmup 4iE)	90.00€	1
- /				

3iE® ENERGY-MONITOR THERMOSTAT

	CODE	DESCRIPTION	RRP (Excl. VAT)	PACK QTY
	3iE™ PB	Piano Black Programmable Thermostat	158.50€	1
23.5	3iE [™] CW	Cloud White Programmable Thermostat	158.50€	1
	3iE™ SG	Silver Grey Programmable Thermostat	158.50€	1
235	3iE™ LG	Leaf Green Programmable Thermostat	158.50€	1
	3iE™ MB	Madison Blue Programmable Thermostat	158.50€	1
	3iE™ DP	Deep Pink Programmable Thermostat	158.50€	1
	3iE™ WB	Warm Berry Programmable Thermostat	158.50€	1

TEMPO DIGITAL THERMOSTAT

	CODE	DESCRIPTION	RRP (Excl. VAT)	PACK QTY
	ELT PB	Tempo - Piano Black	103.50€	1
	ELT CW	Tempo - Cloud White	103.50€	1

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

3
4 6
20

Dual Overlay Concrete with Tiled Floor

- 2. Flexible tile adhesive with glassfibre mesh 3. Dual Over Lay Concrete Boards

- 7. Econna Underfloor Heating System

J Range Thermostats & Controls For Heating & Cooling

4-EVENT TIMER THERMOSTAT



STANDARD AMBIENT DIAL SENSOR

-	CODE	DESCRIPTION	RRP (Excl. VAT)	PACK QTY
-10	WHS-J-SEN-A	Standard ambient dial sensor	79.00€	1

240V BMS DIGITAL MASTER WIRING CENTRE

	CODE	DESCRIPTION	RRP (Excl. VAT)	PACK QTY
	WHS-J- BMSDWC	240v BMS Digital master wiring centre	1050.00€	1
· · .)	WHS-J-DWC	240v Digital master wiring centre	870.00€	1

240V STANDARD MASTER WIRING CENTRE

CODE	DESCRIPTION	RRP (Excl. VAT)	PACK QTY
WHS-J-SWC	240v Standard Master wiring centre	350.00€	1

EXTENSION KIT TO CONNECT CAT5E CABLING TO WIRING CENTRES

m	CODE	DESCRIPTION	RRP (Excl. VAT)	PACK QTY
	WHS-J-EK	Extension kit to connect Cat5e cabling to wiring centres	32.00€	1

HUMIDITY SENSOR FOR HYDRONIC SYSTEMS

CODE	DESCRIPTION	RRP (Excl. VAT)	PACK QTY
WHS-J-SEN-H	Humidity sensor for hydronic systems	195.00€	1

HEATING/COOLING SWITCH FOR HYDRONIC SYSTEMS

fa 1	CODE	DESCRIPTION	RRP (Excl. VAT)	PACK QTY
-	WHS-J- SWITCH	Heating/cooling switch for hydronic systems	234.00€	1

S Range Thermostats & Controls

DIGITAL ROOM THERMOSTAT FOR HYDRONIC SYSTEMS

204	CODE	DESCRIPTION	RRP (Excl. VAT)	PACK QTY
dop	WHS-C- B-D230	Digital room thermostat for hydronic systems	62.00€	1

230V DUAL TEMP THERMOSTAT FOR HYDRONIC SYSTEMS

200	CODE	DESCRIPTION	RRP (Excl. VAT)	PACK QTY
C	WHS-C- B-M230	230v Dual temp thermostat for hydronic systems	40.00€	1

230V MASTER WIRING BOX 4 ZONE FOR HYDRONIC SYSTEMS

	CODE	DESCRIPTION	RRP (Excl. VAT)	PACK QTY
-	WHS-C-B- MASTER01	230v Master wiring box 4 zone for hydronic systems	78.00€	1

230V 4 ZONE SLAVE UNIT FOR HYDRONIC SYSTEMS

	CODE	DESCRIPTION	RRP (Excl. VAT)	PACK QTY
-	WHS-S-SLV4Z	230V 4 zone slave unit for hydronic systems	58.00€	1

230V 6 ZONE SLAVE UNIT FOR HYDRONIC SYSTEMS

1	CODE	DESCRIPTION	RRP (Excl. VAT)	PACK QTY
SHEET.	WHS-S-SLV6Z	230V 6 zone slave unit for hydronic systems	67.00€	1

230V TAMPERPROOF ROOM THERMOSTAT FOR HYDRONIC

	CODE	DESCRIPTION	RRP (Excl. VAT)	PACK QTY
0	WHS-S-230TP	230v Tamperproof room thermostat for hydronic systems	42.00€	1

WET AREA BOX & 3METRE CLASS 2 SENSOR 10K

CODE	DESCRIPTION	RRP (Excl. VAT)	PACK QTY
WHS-S-SEN	Wet Area Box & 3metre class 2 sensor 10k	11.50€	1

230V PLUG-IN TIMER FOR HYDRONIC SYSTEMS

1	CODE	DESCRIPTION	RRP (Excl. VAT)	PACK QTY
	WHS-S- TIMER230	230v Plug-in timer for hydronic systems	96.00€	1

Insulation & Routed Boards

Due to the nature of all insulation products, specific availability and shipping terms may apply. Please contact us on 0345 034 8270 to confirm.

CLYPSO INSULATION BOARD SYSTEMS

CODE	DESCRIPTION	RRP (Excl. VAT)	PACK QTY
WHS- CL-B07025	Clypso 25mm thickness gridded insulation board, EPS 070, 2.4m x 1.2m (pack of 12)	160.00€	12
WHS- CL-B07050	Clypso 50mm thickness gridded insulation board, EPS 070, 2.4m x 1.2m (pack of 6)	120.00€	6
WHS- CL-B07075	Clypso 75mm thickness gridded insulation board, EPS 070, 2.4m x 1.2m (pack of 4)	106.00€	4
WHS- CL-B07100	Clypso 100mm thickness gridded insulation board, EPS 070, 2.4m x 1.2m (pack of 3)	99.00€	3
WHS- CL-B10025	Clypso 25mm thickness gridded insulation board, EPS 100, 2.4m x 1.2m (pack of 12)	215.00€	12
WHS- CL-B10050	Clypso 50mm thickness gridded insulation board, EPS 100, 2.4m x 1.2m (pack of 6)	173.00€	6
WHS- CL-B10075	Clypso 75mm thickness gridded insulation board, EPS 100, 2.4m x 1.2m (pack of 4)	160.00€	4
WHS- CL-B10100	Clypso 100mm thickness gridded insulation board, EPS 100, 2.4m x 1.2m (pack of 3)	152.00€	3
WHS- CL-B07025+	Clypso 25mm thickness gridded insulation board, EPS 070, 2.4m x 1.2m Premium range (pack of 12)	253.00€	12
WHS- CL-B07050+	Clypso 50mm thickness gridded insulation board, EPS 070, 2.4m x 1.2m Premium range (pack of 6)	212.00€	6
WHS- CL-B07075+	Clypso 75mm thickness gridded insulation board, EPS 070, 2.4m x 1.2m Premium range (pack of 4)	198.00€	4
WHS- CL-B07100+	Clypso 100mm thickness gridded insulation board, EPS 070, 2.4m x 1.2m Premium range (pack of 3)	190.00€	3
WHS- CL-B10025+	Clypso 25mm thickness gridded insulation board, EPS 100, 2.4m x 1.2m Premium range (pack of 12)	330.00€	12
WHS- CL-B10050+	Clypso 50mm thickness gridded insulation board, EPS 100, 2.4m x 1.2m Premium range (pack of 6)	290.00€	6
WHS- CL-B10075+	Clypso 75mm thickness gridded insulation board, EPS 100, 2.4m x 1.2m Premium range (pack of 4)	275.00€	4
WHS- CL-B10100+	Clypso 100mm thickness gridded insulation board, EPS 100, 2.4m x 1.2m Premium range (pack of 3)	270.00€	3

METRO / GENERAL INSULATION BOARD

CODE	DESCRIPTION	RRP (Excl. VAT)	PACK QTY
WHS- MT-B07025	Metro/General 25mm thickness insulation board, EPS 070, 2.4m x 1.2m (pack of 12)	79.00€	12
WHS- MT-B07050	Metro/General 50mm thickness insulation board, EPS 070, 2.4m x 1.2m (pack of 6)	79.00€	6
WHS- MT-B07075	Metro/General 75mm thickness insulation board, EPS 070, 2.4m x 1.2m (pack of 4)	79.00€	4
WHS- MT-B07100	Metro/General 100mm thickness insulation board, EPS 070, 2.4m x 1.2m (pack of 3)	79.00€	3
WHS- MT-B07025+	Metro/General 25mm thickness insu- lation board, EPS 070, 2.4m x 1.2m Premium range (pack of 12)	170.00€	12
WHS- MT-B07050+	Metro/General 50mm thickness insu- lation board, EPS 070, 2.4m x 1.2m Premium range (pack of 6)	170.00€	6
WHS- MT-B07075+	Metro/General 75mm thickness insu- lation board, EPS 070, 2.4m x 1.2m Premium range (pack of 4)	170.00€	4
WHS- MT-B07100+	Metro/General 100mm thickness insulation board, EPS 070, 2.4m x 1.2m Premium range (pack of 3)	170.00€	3
WHS- MT-B10025	Metro/General 25mm thickness insulation board, EPS 100, 2.4m x 1.2m (pack of 12)	£108.86	12
WHS- MT-B10050	Metro/General 50mm thickness insulation board, EPS 100, 2.4m x 1.2m (pack of 6)	£109.07	6
WHS- MT-B10075	Metro/General 75mm thickness insulation board, EPS 100, 2.4m x 1.2m (pack of 4)	131.00€	4
WHS- MT-B10100	Metro/General 100mm thickness insulation board, EPS 100, 2.4m x 1.2m (pack of 3)	131.00€	3
WHS- MT-B10025+	Metro/General 25mm thickness insu- lation board, EPS 100, 2.4m x 1.2m Premium range (pack of 12)	248.00€	12
WHS- MT-B10050+	Metro/General 50mm thickness insu- lation board, EPS 100, 2.4m x 1.2m Premium range (pack of 6)	248.00€	6
WHS- MT-B10075+	Metro/General 75mm thickness insu- lation board, EPS 100, 2.4m x 1.2m Premium range (pack of 4)	248.00€	4
WHS- MT-B10100+	Metro/General 100mm thickness insulation board, EPS 100, 2.4m x 1.2m Premium range (pack of 3)	248.00€	3

NEXXA CASTELLATED SYSTEM

CODE	DESCRIPTION	RRP (Excl. VAT)	PACK QTY
WHS-TL- ALU10	Nexxa System plate with 10mm Insulation	17.00€	1

CLYPSO INSULATION GRIDDED BOARD

13	CODE	DESCRIPTION	RRP (Excl. VAT)	PACK QTY
1	WHS-CL-RB25	Clypso 25mm Insulation Gridded PIR board	63.00€	1
	WHS-CL-RB40	Clypso 40mm Insulation Gridded PIR board	80.00€	1
	WHS-CL-RB50	Clypso 50mm Insulation Gridded PIR board	94.00€	1
	WHS-CL-RB60	Clypso 60mm Insulation Gridded PIR board	104.00€	1
	WHS-CL-RB75	Clypso 75mm Insulation Gridded PIR Board	120.00€	1

METRO / GENERAL INSULATION PIR

	CODE	DESCRIPTION	RRP (Excl. VAT)	PACK QTY
	WHS-MT- INS25	Metro/General 25mm Insulation PIR - 2.4 x 1.2m	44.00€	1
	WHS-MT- INS30	Metro/General 30mm Insulation PIR - 2.4 x 1.2m	50.00€	1
	WHS-MT- INS35	Metro/General 35mm Insulation PIR - 2.4 x 1.2m	52.00€	1
	WHS-MT- INS40	Metro/General 40mm Insulation PIR - 2.4 x 1.2m	57.00€	1
	WHS-MT- INS45	Metro/General 45mm Insulation PIR - 2.4 x 1.2m	64.00€	1
	WHS-MT- INS50	Metro/General 50mm Insulation PIR - 2.4 x 1.2m	70.00€	1
	WHS-MT- INS60	Metro/General 60mm Insulation PIR - 2.4 x 1.2m	83.00€	1
	WHS-MT- INS65	Metro/General 65mm Insulation PIR - 2.4 x 1.2m	90.00€	1
	WHS-MT- INS70	Metro/General 70mm Insulation PIR - 2.4 x 1.2m	97.00€	1
	WHS-MT- INS75	Metro/General 75mm Insulation PIR - 2.4 x 1.2m	98.00€	1
	WHS-MT- INS80	Metro/General 80mm Insulation PIR - 2.4 x 1.2m	106.00e	1
	WHS-MT- INS90	Metro/General 90mm Insulation PIR - 2.4 x 1.2m	117.00€	1
	WHS-MT- INS100	Metro/General 100mm Insulation PIR - 2.4 x 1.2m	130.00€	1

TOTAL-16 LOW PROFILE SYSTEM

CODE	DESCRIPTION	RRP (Excl. VAT)	PACK QTY
WHS-TOTAL16- BOARD	Total-16 Moulded Straight Board including Aluminium plate for Pex-A 12mm pipes. 600 x 1200 x 16mm	48.00€	1
CODE	DESCRIPTION	RRP (Excl. VAT)	PACK QTY
WHS-TOTAL16- RETURN	Total-16 Moulded Return Board for Pex-A 12mm pipes. 300 x 600 x 16mm	8.00€	1
CODE	DESCRIPTION	RRP (Excl. VAT)	PACK QTY
WHS-TOTAL16- FEED	Total-16 Moulded Feeding Board for Pex-A 12mm Pipes. 300 x 600 x 16mm	8.00€	1
CODE	DESCRIPTION	RRP (Excl. VAT)	PACK QTY
WHS-P-PEXA- 12 X 70	Pipes Range - Pipe Pex-A 12mm x 2mm. Sold in lengths of 70m	160.00€	1
WHS-P-PEXA- 12 X140	Pipes Range - Pipe Pex-A 12mm x 2mm. Sold in lengths of 140m	320.00€	1
	CODE WHS-TOTAL16- BOARD CODE WHS-TOTAL16- RETURN CODE WHS-PPEXA- 12 X 70 WHS-P-PEXA- 12 X140	CODEDESCRIPTIONWHS-TOTAL16- BOARDTotal-16 Moulded Straight Board including Aluminium plate for Pex-A 12mm pipes. 600 x 1200 x 16mmCODEDESCRIPTIONWHS-TOTAL16- RETURNTotal-16 Moulded Return Board for Pex-A 12mm pipes. 300 x 600 x 16mmWHS-TOTAL16- RETURNTotal-16 Moulded Return Board for Pex-A 12mm pipes. 300 x 600 x 16mmWHS-TOTAL16- RETURNTotal-16 Moulded Return Board for Pex-A 12mm Pipes. 300 x 600 x 16mmWHS-TOTAL16- FEEDTotal-16 Moulded Feeding Board for Pex-A 12mm Pipes. 300 x 600 x 16mmWHS-P-PEXA- 12 X 700Pipes Range - Pipe Pex-A 12mm x 2mm. Sold in lengths of 70mWHS-P-PEXA- 12 X140Pipes Range - Pipe Pex-A 12mm x 2mm. Sold in lengths of 140m	CODEDESCRIPTIONRRP (Excl. VAT)WHS-TOTAL16- BOARDTotal-16 Moulded Straight Board including Aluminium plate for Pex-A 12mm pipes. 600 x 1200 x 16mm48.00€CODEDESCRIPTIONRRP (Excl. VAT)WHS-TOTAL16- RETURNTotal-16 Moulded Return Board for Pex-A 12mm pipes. 300 x 600 x 16mm8.00€WHS-TOTAL16- RETURNTotal-16 Moulded Return Board for Pex-A 12mm pipes. 300 x 600 x 16mm8.00€WHS-TOTAL16- FEEDTotal-16 Moulded Feeding Board for Pex-A 12mm Pipes. 300 x 600 x 16mm8.00€WHS-TOTAL16- FEEDTotal-16 Moulded Feeding Board for Pex-A 12mm Pipes. 300 x 600 x 16mm8.00€WHS-P-PEXA- 12 X 70Pipes Range - Pipe Pex-A 12mm x 2mm. Sold in lengths of 140m160.00€

WATER BASED GLUE

Manager MT	CODE	DESCRIPTION	RRP (Excl. VAT)	PACK QTY
Photo Taxa MT	WHS-X-Glue	10 Litre Water-based glue	128.00€	1

EUROCONE CONNECTORS

Cong	CODE	DESCRIPTION	RRP (Excl. VAT)	PACK QTY
	WHS-P- CONNECT12	12mm x 2mm eurocone connector	3.00€	1

PIPE BEND SUPPORT FOR HYDRONIC SYSTEMS

_	CODE	DESCRIPTION	RRP (Excl. VAT)	PACK QTY
	WHS-P- BEND12	Pipe bend support for 12mm pipes	2.50€	1

DUAL OVERLAY CONCRETE

CODE	DESCRIPTION	RRP (Excl. VAT)	PACK QTY
WDOC	Dual Overlay Concrete System (covers 0.72m²)	39.00€	1

CONTURA FLOATING PANEL - WITH RETURNS

			RRP	PACK
	CODE	DESCRIPTION	(Excl. VAT)	QTY
111	WHS- CO-P2030	Contura Floating 30mm Panel - 200mm Centres With Returns - 150 Grade	20.00€	1
	WHS- CO-P2040	Contura Floating 40mm Panel - 200mm Centres With Returns - 150 Grade	26.00€	1
	WHS- CO-P2050	Contura Floating 50mm Panel - 200mm Centres With Returns - 150 Grade	33.00€	1
	WHS- CO-P2060	Contura Floating 60mm Panel - 200mm Centres With Returns - 150 Grade	32.00€	1
	WHS- CO-P2070	Contura Floating 70mm Panel - 200mm Centres With Returns - 150 Grade	37.00€	1
	WHS- CO-P2080	Contura Floating 80mm Panel - 200mm Centres With Returns - 150 Grade	42.00€	1
	WHS- CO-P2090	Contura Floating 90mm Panel - 200mm Centres With Returns - 150 Grade	48.00€	1
	WHS- CO-P2100	Contura Floating 100mm Panel - 200mm Centres With Returns - 150 Grade	53.00€	1

ECONNA OVER JOIST FLOATING PANEL

1	CODE	DESCRIPTION	RRP (Excl. VAT)	PACK QTY
	WHS-EC- CB22A	Econna Over Joist straight contour board - 600x1800x22	47.00€	1
	WHS-EC- CB22AE	Econna Over Joist turn - 800 x 595 x 22mm	27.00€	1

DIFFUSION PLATE 190 x 1000 x 0.5mm

	CODE	DESCRIPTION	RRP (Excl. VAT)	PACK QTY
	WHS-EC- PLT16	Diffusion plate 190 x 1000 x 0.5mm single channel (16mm pipe)	6.00€	1

5 LITRES OF FIX BINDER

CODE	DESCRIPTION	RRP (Excl. VAT)	PACK QTY
WHS-X-BIND	5 litres of fix binder	75.00€	1

3 LITRES OF START PRIMER

0	CODE	DESCRIPTION	RRP (Excl.VAT)	PACK QTY
	WHS-X- PRIMER	3 litres of start primer	75.00€	1

20KG PACK OF SEAL ADHESIVE

	CODE	DESCRIPTION	RRP (Excl. VAT)	PACK QTY
	WHS-X- SEAL25	20kg pack of seal adhesive	83.00€	1

Aluminium Diffuser Plates

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

n	CODE	DESCRIPTION	RRP (Excl. VAT)	PACK QTY
1	WHS-TE- ALUDP1	Diffusion plate 390 x 1000 x 0.5mm two groove plates (16mm pipe)	11.00€	1
V	WHS-TE- ALUDP2	Diffusion plate 390 x 1000 x 0.6mm two groove plates (16mm pipe)	12.50€	1
	WHS-TE- ALUDP3	Diffusion plate 390 x 1000 x 0.7mm two groove plates (16mm pipe)	15.00€	1

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

	CODE	DESCRIPTION	RRP (Excl. VAT)	PACK QTY
	WHS-TE- ALUDP4	Diffusion plate 190 x 1000 x 0.6mm plates (16mm pipe)	6.00€	1
*	WHS-TE- ALUDP5	Diffusion plate 190 x 1000 x 0.7mm plates (16mm pipe)	6.50€	1

Fixing & Ancillaries

4

TACKER GUN TO BE USED WITH TACKER CLIPS

Γ	CODE	DESCRIPTION	RRP (Excl. VAT)	PACK QTY
H	WHS-CL-FIXER	Tacker gun to be used with tacker clips)	270.00€	1

PIPE CUTTERS UP TO 25mm PIPE DIAMETER

1	CODE	DESCRIPTION	RRP (Excl. VAT)	PACK QTY
X	WHS-P-CUT25	Pipe Cutters up to 25mm pipe diameter	8.50€	1

PIPE CUTTERS UP TO 36mm PIPE DIAMETER

	CODE	DESCRIPTION	RRP (Excl. VAT)	PACK QTY
	WHS-P-CUT36	Pipe cutters up to 36mm pipe diameter	12.50€	1

PIPE DECOILER

CODE	DESCRIPTION	RRP (Excl. VAT)	PACK QTY
WHS-P- DECOILER	Pipe decoiler	380.00€	1

CALIBRATION TOOL

Y	CODE	DESCRIPTION	RRP (Excl. VAT)	PACK QTY
	WHS-P-FORM	Calibration tool	2.30€	1
1				

PIPE BEND SUPPORT FOR HYDRONIC SYSTEMS

\checkmark	CODE	DESCRIPTION	RRP (Excl. VAT)	PACK QTY
	WHS-P-BEND	Pipe bend support for hydronic systems	1.80€	1

45/100mm SINGLE CLIPS (100 PER BAG) FOR HYDRONIC SYSTEMS

	CODE	DESCRIPTION	RRP (Excl. VAT)	PACK QTY
 	WHS-CL-P45	45mm single clips (100 per bag) for hydronic systems	6.00€	100
	WHS-CL-P65	65mm single clips (100 per bag) for hydronic systems	8.00€	100

25mm PIPE CONDUIT PROTECTION 50m

	CODE	DESCRIPTION	RRP (Excl. VAT)	PACK QTY
0	WHS-CL- CONDUIT	25mm pipe conduit protection 50m for hydronic systems	85.00€	1

40 & 60mm CLYPSO CLIPS FOR HYDRONIC SYSTEMS

CODE	DESCRIPTION	RRP (Excl. VAT)	PACK QTY
WHS-CL-T40	40mm tacker clips (300 per box)	21.00€	300
WHS-CL-T60	60mm Clypso clips (300 per box) for hydronic systems	13.00€	300

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

Q	CODE	DESCRIPTION	RRP (Excl. VAT)	PACK QTY
	WHS-FO-TIE	Ties for Mesh system to hold pipe to mesh (cable ties) - 100/bag	1.70€	100

CLIPRAIL FOR HYDRONIC SYSTEMS (SOLD PER UNIT)

	CODE	DESCRIPTION	RRP (Excl. VAT)	PACK QTY
R Box Errs	WHS-MT- RAIL01	Cliprail for hydronic systems (sold per unit)	2.50€	1

NAIL CLIP 16mm FOR JOISTS (100 PER BOX)

_/	CODE	DESCRIPTION	RRP (Excl. VAT)	PACK QTY
2	WHS-SI-N16	Nail clip 16mm for joists (100 per box)	11.50€	100

PERIMETER STRIP FOR HYDRONIC SYSTEMS

CODE	DESCRIPTION	RRP (Excl. VAT)	PACK QTY
WHS-X- EDGE50	Perimeter strip for hydronic systems (8mm x 150mm x 50m)	43.00€	1

POLYTHENE DPM FOR HYDRONIC SYSTEMS

	CODE	DESCRIPTION	RRP (Excl. VAT)	PACK QTY
	WHS-X- POL500	Polythene dpm 500g (4m x 50m)	83.00€	1
	WHS-X- POL1200	Polythene dpm 1200g (4m x 25m)	98.00€	1

Stainless Steel Manifolds / Ancillaries

WARMUP STAINLESS STEEL MAINFOLD

	CODE	DESCRIPTION	RRP (Excl. VAT)	PACK QTY
	WHS-M-S3-02	Warmup Stainless Steel Manifold - 2 zone	155.00€	1
a af	WHS-M-S3-03	Warmup Stainless Steel Manifold - 3 zone	182.00€	1
	WHS-M-S3-04	Warmup Stainless Steel Manifold - 4 zone	205.00€	1
	WHS-M-S3-05	Warmup Stainless Steel Manifold - 5 zone	230.00€	1
	WHS-M-S3-06	Warmup Stainless Steel Manifold - 6 zone	258.00€	1
	WHS-M-S3-07	Warmup Stainless Steel Manifold - 7 zone	284.00€	1
	WHS-M-S3-08	Warmup Stainless Steel Manifold - 8 zone	310.00€	1
	WHS-M-S3-09	Warmup Stainless Steel Manifold - 9 zone	342.00€	1
	WHS-M-S3-10	Warmup Stainless Steel Manifold - 10 zone	362.00€	1
	WHS-M-S3-11	Warmup Stainless Steel Manifold - 11 zone	384.00€	1
	WHS-M-S3-12	Warmup Stainless Steel Manifold - 12 zone	415.00€	1

AUTO AIR VENT

in.	CODE	DESCRIPTION	RRP (Excl. VAT)	PACK QTY	
	WHS-M-B- VENT	Auto Air Vent for Hydronic System	7.30€	1	
22mm 2 PORT VALVE FOR ZONING OF MANIFOLDS AND HEATING SYSTEMS					
N	CODE	DESCRIPTION	RRP (Excl. VAT)	PACK QTY	
0727	WHS – ZONE VALVE 2 PORT	22mm 2 port valve for zoning of manifolds and heating systems	75.00€	1	
EUROCONE CONNECTORS					
O.	CODE	DESCRIPTION	RRP (Excl. VAT)	PACK QTY	
- Carlo	WHS-P- CONNECT	16mm x 2mm eurocone connector for hydronic systems	3.00€	1	

230V ACTUATOR FOR HYDRONIC SYSTEMS

Christen .	CODE	DESCRIPTION	RRP (Excl. VAT)	PACK QTY
	WHS-M-S3- ACT230	230v Actuator for Hydronic Systems	31.00€	1

WARMUP HYDRONIC MIXING UNIT

	CODE	DESCRIPTION	RRP (Excl. VAT)	PACK QTY
	WHS-M-S3- MIX	Warmup Hydronic Mixing Unit	515.00€	1

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

CODE	DESCRIPTION	RRP (Excl. VAT)	PACK QTY
WHS-M-S3- VALVES	Manifold valve kit - 1" isolating valve pair, 1" unions and 22mm compression fittings	44.00€	1

DYNACON MANIFOLD

	CODE	DESCRIPTION	RRP (Excl. VAT)	PACK QTY
00000	WHS-M-D-02	Dynacon manifold - 2 zone	205.00€	1
	WHS-M-D-03	Dynacon manifold - 3 zone	265.00€	1
	WHS-M-D-04	Dynacon manifold - 4 zone	320.00€	1
	WHS-M-D-05	Dynacon manifold - 5 zone	385.00€	1
	WHS-M-D-06	Dynacon manifold - 6 zone	437.00€	1
	WHS-M-D-07	Dynacon manifold - 7 zone	500.00€	1
	WHS-M-D-08	Dynacon manifold - 8 zone	550.00€	1
	WHS-M-D-09	Dynacon manifold - 9 zone	610.00€	1
	WHS-M-D-10	Dynacon manifold - 10 zone	670.00€	1
	WHS-M-D-11	Dynacon manifold - 11 zone	725.00€	1
	WHS-M-D-12	Dynacon manifold - 12 zone	780.00€	1



Call us now 0345 345 2288 or visit www.warmup.co.uk

Pipes WARMUP® PEX-A PIPE 16mm x 2mm

CODE	DESCRIPTION	RRP (Excl. VAT)	PACK QTY
WHS-P-PEXA-25	PEX-A 16mm x 2mm x 25m	40.00€	1
WHS-P-PEXA-50	PEX-A 16mm x 2mm x 50m	79.00€	1
WHS-P-PEXA-60	PEX-A 16mm x 2mm x 60m	94.00€	1
WHS-P-PEXA70	PEX-A 16mm x 2mm x 70m	110.00€	1
WHS-P-PEXA-80	PEX-A 16mm x 2mm x 80m	126.00€	1
WHS-P-PEXA-90	PEX-A 16mm x 2mm x 90m	141.00€	1
WHS-P-PEXA-100	PEX-A 16mm x 2mm x 100m	157.00€	1
WHS-P-PEXA-110	PEX-A 16mm x 2mm x 110m	173.00€	1
WHS-P-PEXA120	PEX-A 16mm x 2mm x 120m	188.00€	1
WHS-P-PEXA200	PEX-A 16mm x 2mm x 200m	314.00€	1
WHS-P-PEXA-300	PEX-A 16mm x 2mm x 300m	470.00€	1
WHS-P-PEXA-500	PEX-A 16mm x 2mm x 500m	782.00€	1

WARMUP® PE-RT PIPE 16mm x 2mm

200	CODE	DESCRIPTION	RRP (Excl. VAT)	PACK QTY
-	WHS-P-PERT-25	PE-RT 16mm x 2mm x 25m	29.00€	1
	WHS-P-PERT-50	PE-RT 16mm x 2mm x 50m	57.00€	1
	WHS-P-PERT-60	PE-RT 16mm x 2mm x 60m	69.00€	1
	WHS-P-PERT-70	PE-RT 16mm x 2mm x 70m	80.00€	1
	WHS-P-PERT-80	PE-RT 16mm x 2mm x 80m	91.00€	1
	WHS-P-PERT-90	PE-RT 16mm x 2mm x 90m	103.00€	1
	WHS-P-PERT-100	PE-RT 16mm x 2mm x 100m	114.00€	1
	WHS-P-PERT-110	PE-RT 16mm x 2mm x 110m	125.00€	1
	WHS-P-PERT-120	PE-RT 16mm x 2mm x 125m	137.00€	1
	WHS-P-PERT-300	PE-RT 16mm x 2mm x 300m	340.00€	1
	WHS-P-PERT-500	PE-RT 16mm x 2mm x 500m	560.00€	1

WARMUP® PE-RT/AL/PE-RT 16mm x 2mm

10	CODE	DESCRIPTION	RRP (Excl. VAT)	PACK QTY
	WHS-P-ALPERT-100	ALPERT 16mm x 2mm, 100m	185.00€	1
	WHS-P-ALPERT-200	ALPERT 16mm x 2mm, 200m	360.00€	1
	WHS-P-ALPERT-500	ALPERT 16mm x 2mm, 500m	900.00€	1

