



# MULTIPIPE

## COMPANY OVERVIEW



**mlep**

Multilayer Pipes and Fittings



**UFH**

Underfloor Heating - Domestic, Commercial, Electric



**PRE-INS**

Pre-Insulated Pipe Systems



**HIU**

HIU's, Meters & Valves

[WWW.MULTIPIPE.CO.UK](http://WWW.MULTIPIPE.CO.UK)

## INTRODUCTION & BENEFITS

### About Multipipe

We are an independently owned UK business, with a combined management experience within the UK construction industry in excess of 50 years. Our business focus is on product, support, service and quality. We have numerous UK & European partner manufacturers providing high quality, cost effective pipe, fittings and heating products.

Our Multipipe product offer and team have been assembled to provide the UK construction industry a sound, well rounded and cost effective selection of solutions in the fields of plumbing, heating and water distribution.

We provide a wide range of solutions to suit all budgets and project specifications, which in turn are supported by large stock levels, technical support and competitive pricing. Furthermore, our aim is to provide the kind of products and service that ensures long-term sustainable partnerships with our clients.

We have a nationwide sales team, supported by office based internal sales and customer services departments, so you can always get in contact with someone who knows about your project in detail. In addition our 'dedicated' customer service programme ensures that our business operations are slick and robust, and everything we do is designed to support our customers' requirements.

### Approvals and Certification



### Why Choose Multipipe?

#### As an Installer:

- Comprehensive plumbing and heating solutions
- Expert know how and onsite support
- The most cost effective solutions in our field
- Product readily available

#### As a Merchant or Distributor:

- Excellent customer service and support
- Large stocks
- On time in-full deliveries
- Nationwide coverage
- Fast turnaround on quotations

#### As a Specifier or Designer:

- A range of up to date solutions that integrate with your project
- Quality European manufactured products
- Specification and design support within our in-house team
- Full CAD design facility
- Continuous innovation

## SYSTEMS OVERVIEW

## mlcp

## Multilayer Pipe &amp; Fittings

Founded in 2004, our partner Multitubo now operates in over 40 countries around the world. Focused on listening to the installers, Multitubo now has produced 5 different types of fittings, all perfectly married to their excellent multilayer pipe offering. High grade raw materials, constant design improvement, cutting edge technology and outstanding logistics, Multitubo now stands as one of the leaders in the German and international pipe and fittings market. Our long term exclusive partnership agreement with Multitubo, means we now hold very significant levels of product in stock that is immediately available from our own facility in the UK.



## UFH

## Underfloor Heating

With over 25 years experience in the commercial underfloor heating market, and in partnership with key industry manufacturers, we have the product, technical knowledge, support and pricing to provide the best in commercial and domestic underfloor heating. We offer both water-based and electric underfloor heating systems; each with different advantages depending on the application and size of the project. Our external technical sales team working in conjunction with our in-house technical and design team can provide whichever solution is required for your specific project, working with you from inception to completion and beyond.



MULTIPIPE

## HIU

## Heat Interface Units

A primary consideration in modern construction is increased energy efficiency, user comfort and energy costs – particularly in multi-dwelling buildings.

As a result Centralised District Heating schemes, supplied by a combination of traditional and renewable energy sources, are becoming widely accepted as the industry norm for new build developments. Heat Interface Units (HIUs) give Consultants and Engineers a reliable solution which provide eco-friendly, efficient temperature control whilst achieving high energy efficiency and user comfort.

In combination with leading UK manufacturers, we have developed a brand new HIU product range including metering options all backed by the required technical support required.



MULTIPIPE

## PRE-INS

## Pre-Insulated Pipe Systems

We are delighted to present our newest and incredibly exciting partnership with Terrendis. Founded in 2012 as a subsidiary of the French RYB Group, Terrendis has fast developed a comprehensive range of pre-insulated pipe systems.

We now acts as sole UK distributor for Terrendis systems and products. Our high levels of stock across the range of heating, sanitary and cooling pipe systems and a vast technical experience within our Multipipe team, enables us to both aid in design & specification, whilst also reacting quickly and efficiently to our customers' needs.





## MLCP PIPE AND FITTINGS



### Multi-Layer Composite Pipe (MLCP)

By combining PE-RT and aluminium, a new technologically advanced material is formed, providing security and safety. MLCP's ultra smooth inner layer – lasting its whole lifetime – prevents the formation of deposits and corrosion. The metal layer prevents any oxygen ingress and is the basis for the unique pipe installation properties.

### Pipe Composition

Our Multitubo MLCP consists of 5 layers. One polyethylene (PE) layer is applied to the inside and one to the outside of the welded aluminium pipe. Both PE layers are permanently bonded to the aluminium pipe by means of an adhesive layer. The PE used is a non-cross-linked polyethylene of raised temperature resistance according to DIN 16833 (PE-RT – polyethylene of raised temperature resistance).

The Multitubo systems multi-layer pipe is designed for the specific requirements of drinking water and heating installations. The 5-layer structure combines the advantages of plastic and metal pipes.



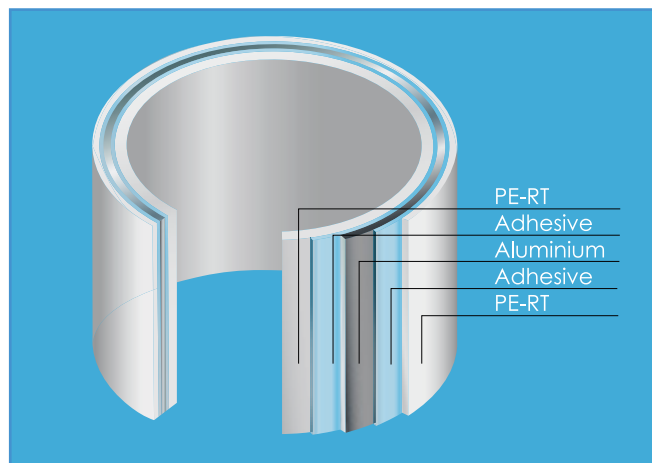
### Why MLCP rather than copper?

- Dimensions up to 25mm can easily be bent by hand, therefore work can be carried out much more efficiently
- Installation times are reduced
- No hot works are required
- Low pipe coil weight makes for easier transportation
- MLCP is formstable, once bent into shape it keeps its shape, resulting in a significant reduction in fastening points
- Clipping distances as metal pipes
- Low heat expansion



### Our MLCP Product

- U Profile Pressing System
- 10 Bar at 95 Degrees
- 100% Oxygen Barrier
- Tooling deals available
- Made in Germany
- WRAS approved
- Suitable for domestic & commercial projects
- Ideal for traditional and manifold plumbing
- Riser, radiators, hot & cold plumbing
- Sizes 16-110mm
- Available pre-insulated
- 25 year guarantee (50 years available on application)
- Collateral damage warranty €2.0 Million



## MLCP PIPE AND FITTINGS

### Metal Press Fittings

The Metal Press Fitting was the first type of connection developed by Multitubo systems and has been installed innumerable times. The fittings features enable quick and safe installation, 16mm - 75mm sizes.



### Modular Press Fittings

90 - 110mm modular stainless steel press fittings are available for commercial riser pipes.



### Composite Press Fittings

A cost-effective extension to the Metal-Press-Fitting range from 16mm up to 32mm.

To secure the highest quality requirements for this fitting, Multitubo systems uses the high performance material PPSU. This material has a high impact resistance as well as high temperature and chemical resistance. The fitting bodies are white for a neat finish.



### Composite Push Fittings

Safe connection with no pressing tools required. Sizes 16mm - 25mm.



### Welded Fittings

A revolution in welding technology. The Multitubo pipe and fitting are welded together, using a special tool, creating a perfectly protected joint. Sizes 32mm - 75mm.



### Adaptor Fittings

A range of compression fittings for MLCP such as adaptors used to connect to copper compression and radiator valves are available to complete our MLCP system offering.



# MANIFOLD PLUMBING & HEATING SYSTEMS



## Plumbing for the 21st Century

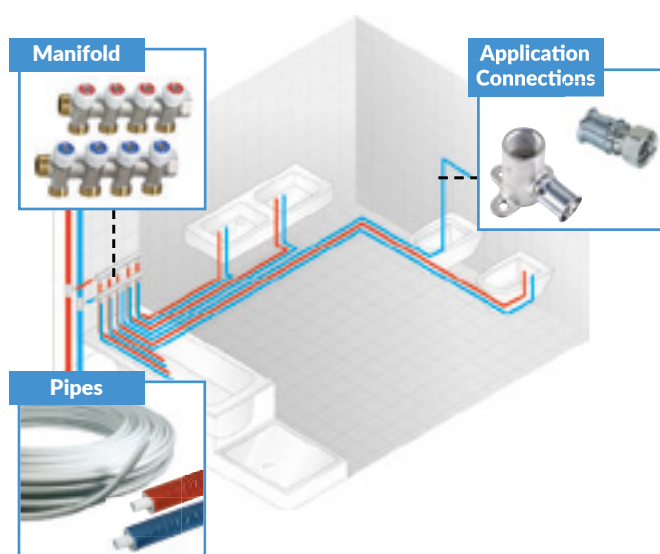
Why chose manifold plumbing rather than traditional branching plumbing methods?

Widely used on the continent for many years, manifold plumbing and heating systems affords the installer greater peace of mind. With fewer fittings to purchase, install or worry about during and after any installation and with added benefits such as pre-insulated pipe and isolation at the manifold, these plumbing and heating systems lend themselves perfectly to new build and retro-fit installations.

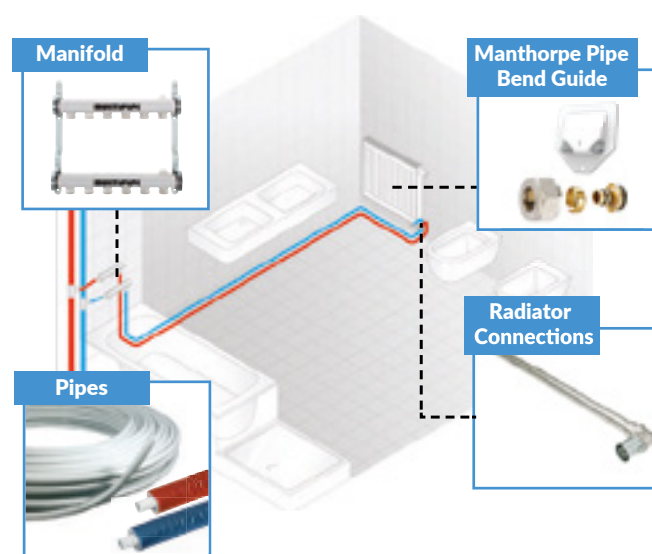
## Why Manifold Plumbing & Heating?

- Speed of installation
- Point to point installation – fewer fittings, less chance of leaks
- No fittings in the floor or walls
- Massive reduction in fittings use
- Capital cost saving on tools and fittings
- Full range of connection adaptors available
- Individual appliance isolation at the manifold
- Strong, flexible pipe, suitable for laying in screed
- Pipe traceable as required by NHBC
- Pipe available pre-insulated in red and blue for flow & return or hot & cold
- Individual room temperature control and system balancing.
- Easy pressure testing
- Collateral Damage Warranty - €2 Million

## Manifold Plumbing



## Manifold Heating





## POD/OFF SITE MANUFACTURES

### Pod Manufacturers

At Multipipe we understand and acknowledge the importance of stock maintenance and availability to Pod manufacturers. We 'ring fence' stock to ensure continuity of supply at all times. Our multi-layer composite plumbing is the preferred choice for off-site manufacturing due to the robust technical characteristics and flexibility of the pipe and jointing system. Your partnership with Multipipe will ensure:

- A Fast & Secure jointing system
- Dedicated support
- Staff Training
- Sustainability
- Improved safety and work conditions



### By using Multipipe's offering of MLCP (Multi-Layer Composite Pipe) on your construction, you will have:

- Leak free joint security for total confidence and no integrity loss when transporting and storing
- Low pipe expansion means less movement offering greater joint security
- Easy to fit and visually check for a fast and immensely secure installation process
- Simple pressing system with minimal training required, ideal for factory line use and mass production projects like Pod manufacturing
- Improved system flow rates by forming swept bends and using fewer elbows
- Professional system for complete functionality, intuitive usage and aesthetically pleasing installations



### Our MLCP Product

Our fit-first-time, leak-free MLCP systems are proven within the marketplace for over 30 years. Other benefits include:

- Can be quickly formed by hand without the need for tooling
- WRAS approved
- 100% Oxygen Barrier
- Noise free
- Fitting can be rotated after pressing without compromising the integrity of the joint
- Pipe is form-stable. Once a bend or offset has been formed it will retain it's shape, the pipe can also be reformed with no reduction of it's integrity
- Clean and simple to use
- Due to the pipe's welded aluminium core it is very resistant to mechanical damage, and as the press-fit system seals on the inside of the pipe any damage to the outer wall does not affect the integrity of the joints
- 100% recyclable



Also available, our Multi-Layer pipe, with round insulation, thickness of insulation 9mm, heat conductance rate (WLG) 040



## UNDERFLOOR HEATING SYSTEMS

### Our Offering

We are a premier design and supply provider of domestic and commercial underfloor heating in the UK market. Our extensive stock holding and knowledgeable technical design team are here to ensure your project runs as smoothly as possible. All of our products are supplied by leading European manufacturers with the relevant certification and are all covered by a comprehensive warranty.

We have over 12 different floor solutions covering timber, screed and floating systems.

We offer both electric and water-based UFH systems; each has different advantages depending on the application and size of the project.

### Why UFH rather than radiators?

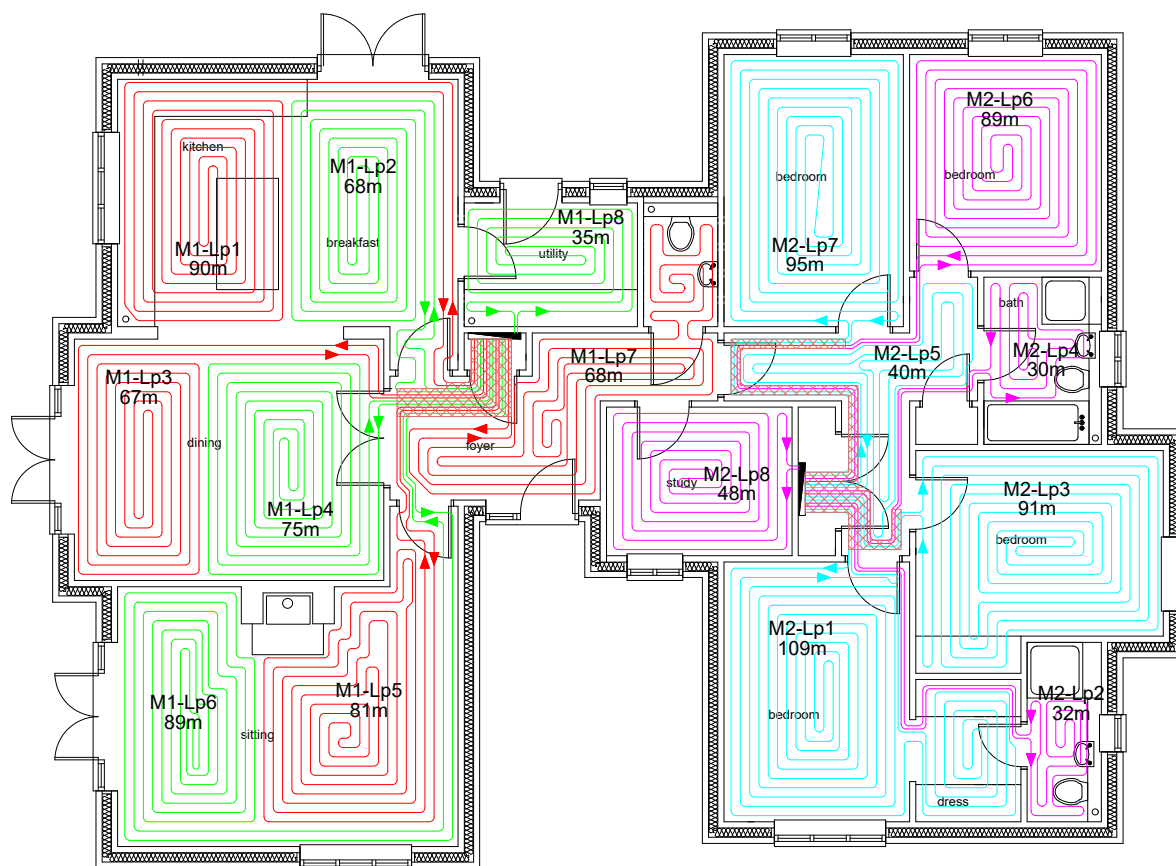
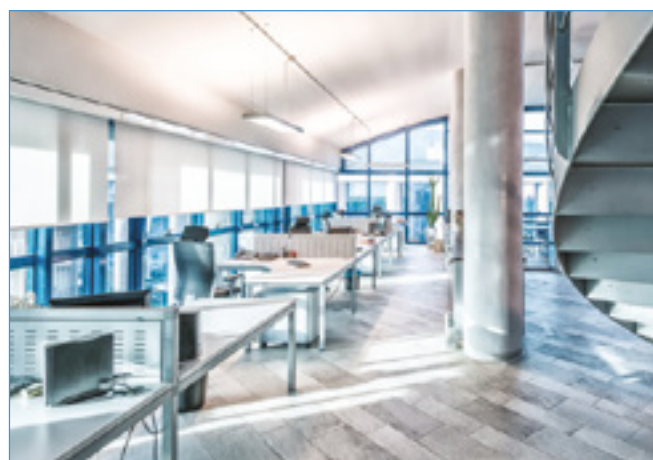
There are many benefits of Underfloor Heating (UFH) for the building owner and occupier:

- More comfortable indoor environment – The radiant heat from the floor provides warm feet and a more comfortable even temperature
- No compromising on room layout – No space is lost to radiators, all of the floor area is available
- Hygienic – No hard to clean bacteria and dust collectors making UFH ideal for healthcare
- Zone control – Each room can be controlled by its own thermostat enabling the occupiers to heat the rooms they are using saving on heating bills

### Commercial Underfloor Heating

At Multipipe, we have a wide variety of solutions for commercial underfloor heating applications, from heating sports halls, offices to apartment blocks we have a system that will suit your project. Our highly-skilled design and technical team will work with you to create the ideal system for your building including heat loss calculations, advise on building regulation requirements and design for the integration of renewable energy technologies as required.

Should you need it we can support installers with guidance on the installation of the system as well. Just give us a call on 01245 227630 to discuss your project.





## WET UNDERFLOOR HEATING SYSTEMS

### Water Based UFH Overview

Water Underfloor heating (UFH) systems allow the whole floor space as the radiant factor allowing the water temperature required to significantly drop to 40-55 degrees, saving energy costs and making UFH a perfect partner to renewable energy heat sources.

The whole room area is available to the occupant, making freedom of design and aesthetics a key benefit for choosing underfloor heating over a traditional heating system. The lack of radiators also makes UFH the perfect choice for healthcare applications as there are no radiators for dirt to collect behind and the heated floor area allows for floors to dry quickly after cleaning. UFH also offers benefits for use in applications such as prisons reducing the opportunity for vandalism and in assisted living areas UFH reduces the risk of injury as there are no high temperature radiator surfaces or sharp edges.

The flexibility of heating control is an additional benefit for using UFH systems, rooms can be individually zoned so that some areas are warmer or cooler than others, and a wide variety of thermostats allow for app-enabled, digitally programmable or tamperproof options.

### Single Room & Zone Packs

Zone packs are designed to be used where a design is not required. The Multipipe Zone Pack allows for speedy and simple installation into single or multiple rooms and is suitable for screeded floors where the insulation is located immediately below the pipe.



### Water Temperature Controls

Underfloor heating systems use a control pack to circulate the water around the pipe circuits and to blend hot water from the heat source with cold water from the return feed to deliver a lower running temperature. Compared to radiators using the whole floor space as the radiant factor allows the water temperature required to significantly drop to 40-55 degrees. This will show savings of up to 30% on fuel (BSRIA).



### Air Temperature Controls

We offer a wide range of 230V, Wireless (RF) and Smart air temperature control systems for underfloor heating or for use with traditional radiator systems. From simple dial thermostats through to comprehensive touchscreen, programmable and app-enabled systems. Our design and estimating team are available to help you select the best type of control for your project requirements.



### Smart Heating Control Systems

- Control your heating system from anywhere with the smartphone app
- Energy efficient controls only heat the rooms you need when you need them
- Control, safety, security and convenience
- Offers control solutions for both Radiator and UFH heating system, or combination of both
- Simple and easy to install with plug and play push button technology

# RIO

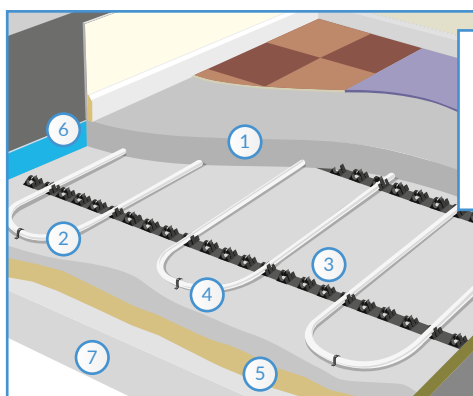


# WET UNDERFLOOR HEATING SYSTEMS

## Floor Constructions

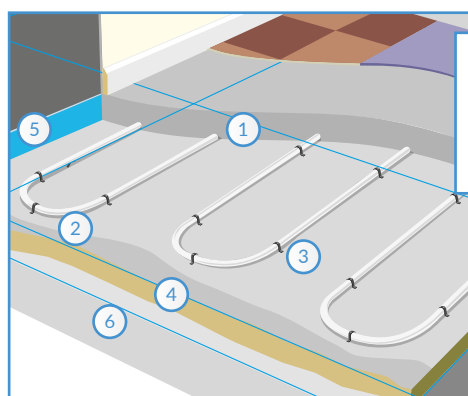
We can offer over a dozen different system types across a wide range of floor constructions and applications.

### Solid Floor Systems - Clip Rail



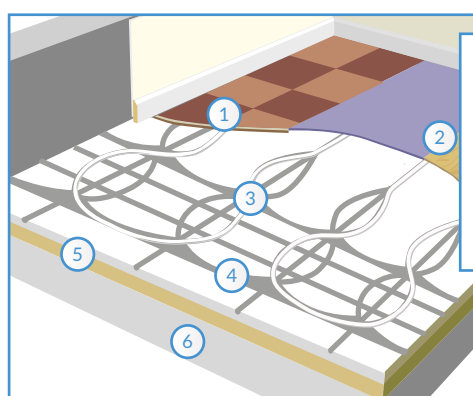
1. Screed
2. UFH Pipe
3. Clip Rail
4. Staples
5. Insulation
6. Edge Insulation
7. Concrete Slab

### Solid Floor Systems - Pipe Clips



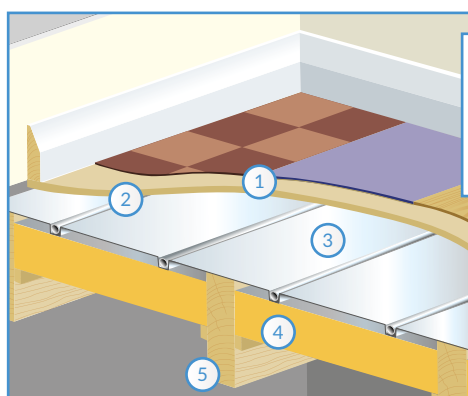
1. Screed
2. UFH Pipe
3. Staples
4. Insulation
5. Edge Insulation
6. Concrete Slab

### Dry Screed System



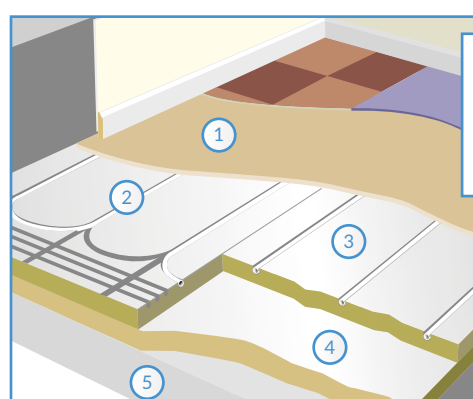
1. Carpet/Vinyl with plywood beneath
2. Tile/ wood floor
3. UFH Pipe
4. Retrofit Floor Panel
5. Insulation (if required)
6. Floor Slab

### Timber Suspended Floors



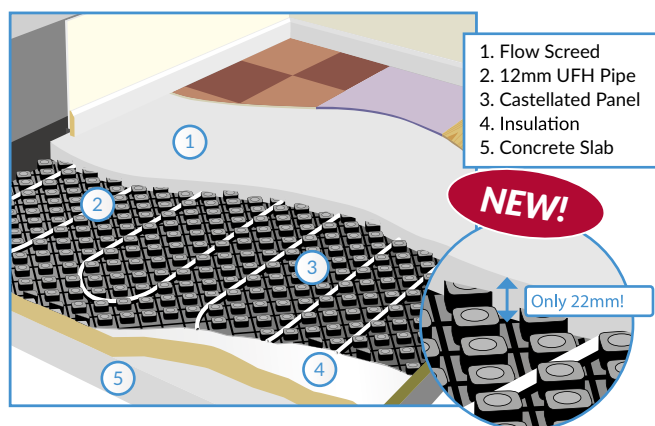
1. Chipboard
2. UFH Pipe
3. Heat Diffusion Plate
4. Insulation
5. Joists

### Floating Floor Systems



1. Chipboard
2. UFH Pipe
3. Floating Floor Panel
4. Insulation
5. Floor Slab

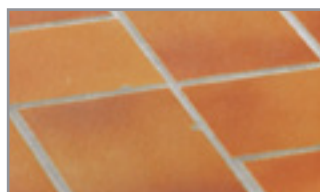
### Lo-Flow Screed System



1. Flow Screed
2. 12mm UFH Pipe
3. Castellated Panel
4. Insulation
5. Concrete Slab

## Floor Coverings

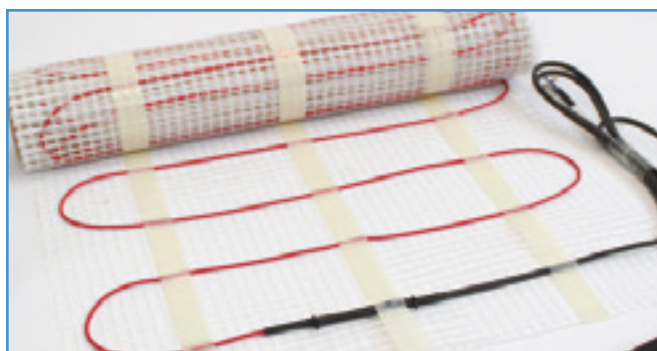
Our Underfloor Heating systems can sit beneath any type of floor covering, including stone, tile, wood and carpet.



### About Electric Underfloor heating

Our electric underfloor heating is perfect for small area applications; whilst electric UFH is cheaper to install than a water-based UFH system, it is not quite as cost effective to run and so is generally not recommended for heating larger areas. Electric underfloor heating is therefore the perfect solution for single room applications such as kitchens, bathrooms and conservatories.

Electric UFH systems are very shallow so it is often easier to retrofit in an existing room than a water-based UFH system, which will require space for pipework and could involve the floor level being raised.



### Mat Systems

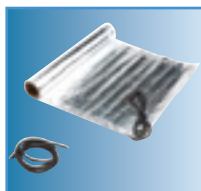
#### Multilek Floor Warming & Floor Heating Mats

Multipipe's high quality electric heating mats consist of a 3mm heating cable attached to a fibre glass mesh. The mats are 500mm wide and ends in a 2.5m 'cold tail' supply cable. Range of 1-12m<sup>2</sup> mats available in 100, 160 and 200 w/m<sup>2</sup> outputs at only 3.9mm thick.



#### Multilek Laminate & Engineered Wood Floor Heating Mats

Ideal for Floor Heating Applications with a laminate or engineered wood finish and requires IzoTherm Insulating Underlay. A range of mats covering between 1 and 12m are available with Watt outputs of between 140w and 1680w.



### Cable Systems

#### Multilek Under Tile Heating Cables

Under tile heating cables are ideal for awkward shaped areas and can be laid at varying centres to suit your desired heat output. Cable rolls are available from 1m (150w) through to 150m (1800w).



### Why use Multilek?

# MULTI

- Available to suit all domestic and commercial applications
- Suitable for use with most types of floor covering
- Full design service and technical support available
- 1-12m<sup>2</sup> mats available in 100, 160 and 200 w/m<sup>2</sup> outputs at only 3.9mm thick
- 1-12m<sup>2</sup> mats for wood and laminate floors at only 2.8mm thick
- Under tile heating cables rated at 12 watts per metre available in 12.5m coils to 150m coils
- Extensive range of controls options
- Comprehensive 20 year insurance backed guarantee on all mat and cable systems

### Temperature Controls

#### Thermostats and Controls

A range of controls are available to complete or electric underfloor heating offering – from intelligent touchscreen controls offering 7 day programmable systems through to simple on/off manual thermostats. Floor sensors are included as standard to manage heat output effectively and comply with building regulations.



### Tile Backer Boards

#### Insulated Tile Backer Boards

We offer a lightweight insulated tile backer board developed specifically for the thermal insulation of tiled floors. It is constructed from an extruded polystyrene core covered on both sides by a glass fibre mesh reinforced polymer cement coating. It has exceptional compressive strength and moisture resistance. 6, 10 or 20mm thicknesses, can be fixed to any surface and has a keyed surface ready to receive tile adhesive. Easy to work with - cut with a knife or saw and is lightweight and easy to handle.



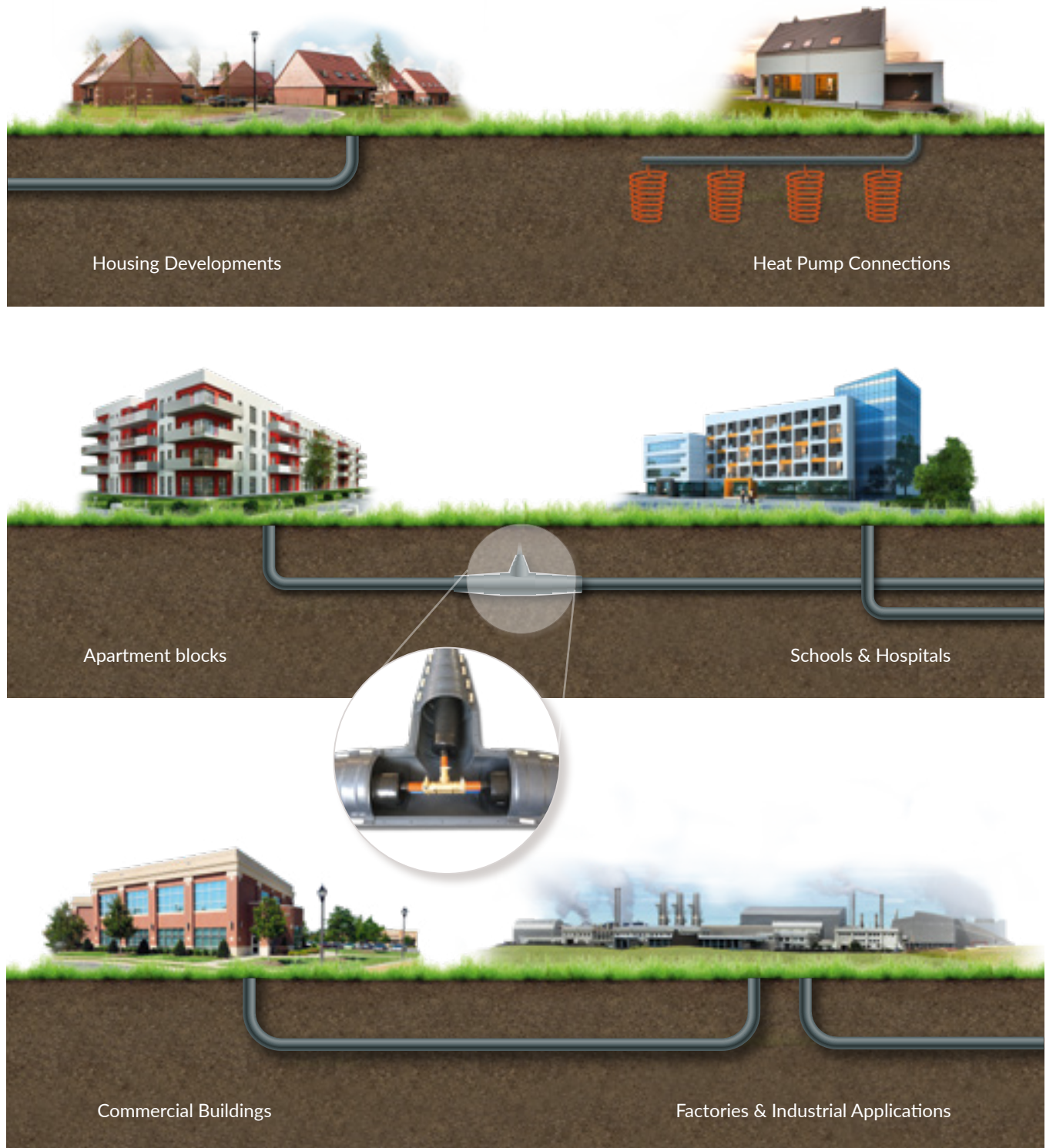


## PRE-INSULATED PIPE SYSTEMS

**PRE-ins**

### Pre-Insulated Pipe Systems Overview

Pre-Insulated pipe systems are ideal for connecting remote heat sources, typically from renewable energy applications to main heating systems; they are also used to create district heating networks from a main heat source to outlying buildings, whilst maintaining water temperature from the source through the insulated pipe.



## Pre-Insulated Pipe Systems Overview



We offer a range of Pre-insulated pipe systems from single, duo and through to quad formats for heating, sanitary, hot and cold water systems. The carrier pipes are made from cross-linked PE-Xa with a coloured oxygen-diffusion barrier whilst the multi-layer thermal insulation is made from cross-linked, microcellular PE-X foam with a water-repellent closed cell structure; and is characterised by its durable, non-ageing insulation performance, and its permanent elasticity, even after bending multiple times. The high-grade, double walled, corrugated HDPE sleeve shields the pre-insulated pipe system against mechanical impacts and moisture, whilst maintaining maximum flexibility.

The pipe offering is complimented with a complete range of connectors and accessories including couplers, end caps, fix points and insulation kits.

## Pre-Packed Cut to Length Pipe Packs

For ease of ordering and simple planning we offer a range of pre-insulated pipe packs, with cut to length pipe coils in 10m, 15m 20m or 25m lengths, together with the necessary couplings, end caps, fixed point fittings and installation instructions to complete the installation.



## System Overview

| PRODUCT   | SINGLE | SINGLE + CABLE | DOUBLE         | QUADRUPLE |
|---|--------|----------------|----------------|-----------|
| <b>Heating</b><br>(PE-Xa / SDR11 / PN6 / 95 °C)                           | <br>H  |                | <br>HD         | <br>Q     |
| <b>Sanitary hot (drinking) water</b><br>(PE-Xa / SDR7.4 / PN10 / 95°C)    | <br>S  |                | <br>SD         | <br>Q     |
| <b>Cold (drinking) water and cooling</b><br>(HDPE / SDR11 / PN16 / 25 °C) | <br>C  | <br>CW10       | <br>ON REQUEST |           |
| <b>Complementary accessories</b>  | ✓      | ✓              | ✓              | ✓         |

## HEAT INTERFACE UNITS

### Our Offering

A primary consideration in modern construction is increased energy efficiency, user comfort and energy billing – particularly in multi-dwelling buildings. As a result Centralised District Heating schemes, supplied by a combination of traditional and renewable energy sources, are becoming widely accepted as the industry norm for new build developments.

Heat Interface Units give Consultants and Engineers a reliable solution which provide eco-friendly, efficient temperature control whilst achieving high energy efficiency and user comfort.

Instantaneous DHW is achieved using both thermostatic and Electronic control – ensuring superb temperature regulation. Equally our high capacity Heat Exchangers and combined constant flow and return temperature controllers allow unrivalled user comfort and efficiency.

The system allows a multitude of control options ranging from basic proportional control linked to an existing BMS system to full, stand-alone Weather Compensation and Wireless Room stat options– all of which are easily retrofittable and quick to install.

#### Benefits

- No gas supply required to individual apartments
- Reduced installation and life cycle costs
- Integration of renewable and low carbon technology into each dwelling
- Lower maintenance
- Greater energy efficiency

### Indirect Twin HIU

- Hydronic separation between primary and secondary system
- Instantaneous Heating and DHW from plate heat exchangers
- 12L expansion vessel
- Electronic and thermostatic control of DHW –High Flow rates
- Differential pressure control as standard
- Unique DHW control allowing Legionella flush if required
- AISI 316 stainless steel heat exchanger does not require maintenance.
- AISI 316 stainless steel piping prevents any corrosion.
- Easy to install and operate.



### Indirect Single HIU

- Hydronic separation between primary and secondary system
- Instantaneous Heating and DHW from plate heat exchangers
- 12L expansion vessel
- Electronic and thermostatic control of DHW –High Flow rates
- Differential pressure control as standard
- Unique DHW control allowing Legionella flush if required
- AISI 316 stainless steel heat exchanger does not require maintenance.
- AISI 316 stainless steel piping prevents any corrosion.
- Easy to install and operate.



### Water Meters

A combined valve assembly to control and meter water supply to multi-dwelling accommodation such as apartments and office blocks. WRAS approved.

The Assembly comprises of isolating ball valve, water meter (or spacer if required) and combined PRV, double check valve and pressure gauge module.

By combining the PRV and DCV components the Water Meter Assembly (WMA) is much more compact than existing products and by reducing the number of connections dramatically limits the potential leak points on the module.





## SERVICE & SUPPORT

### Service

Our aim is to provide the kind of customer service and technical support that ensures long-term sustainable partnerships with our clients:

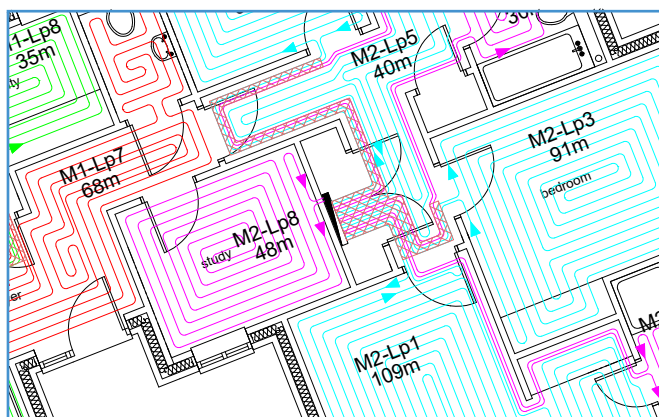
- Comprehensive technical support
- National field sales support
- Installer training
- Large UK stocks
- On time complete deliveries



### Quotations

Call us today for quick turnaround, free of charge quotations:

- No obligation quotes
- We cover the full spectrum - UFH, plumbing and pre-insulated pipe projects
- Design, drawing and estimating service



# MULTIPIPE

### Warranty

Our high quality Multitubo MLCP and fittings come with an industry leading comprehensive warranty for extra peace of mind:

- 25 year guarantee
- Project specific 50 year guarantees are available on request
- Collateral damage warranty of 2 million Euros

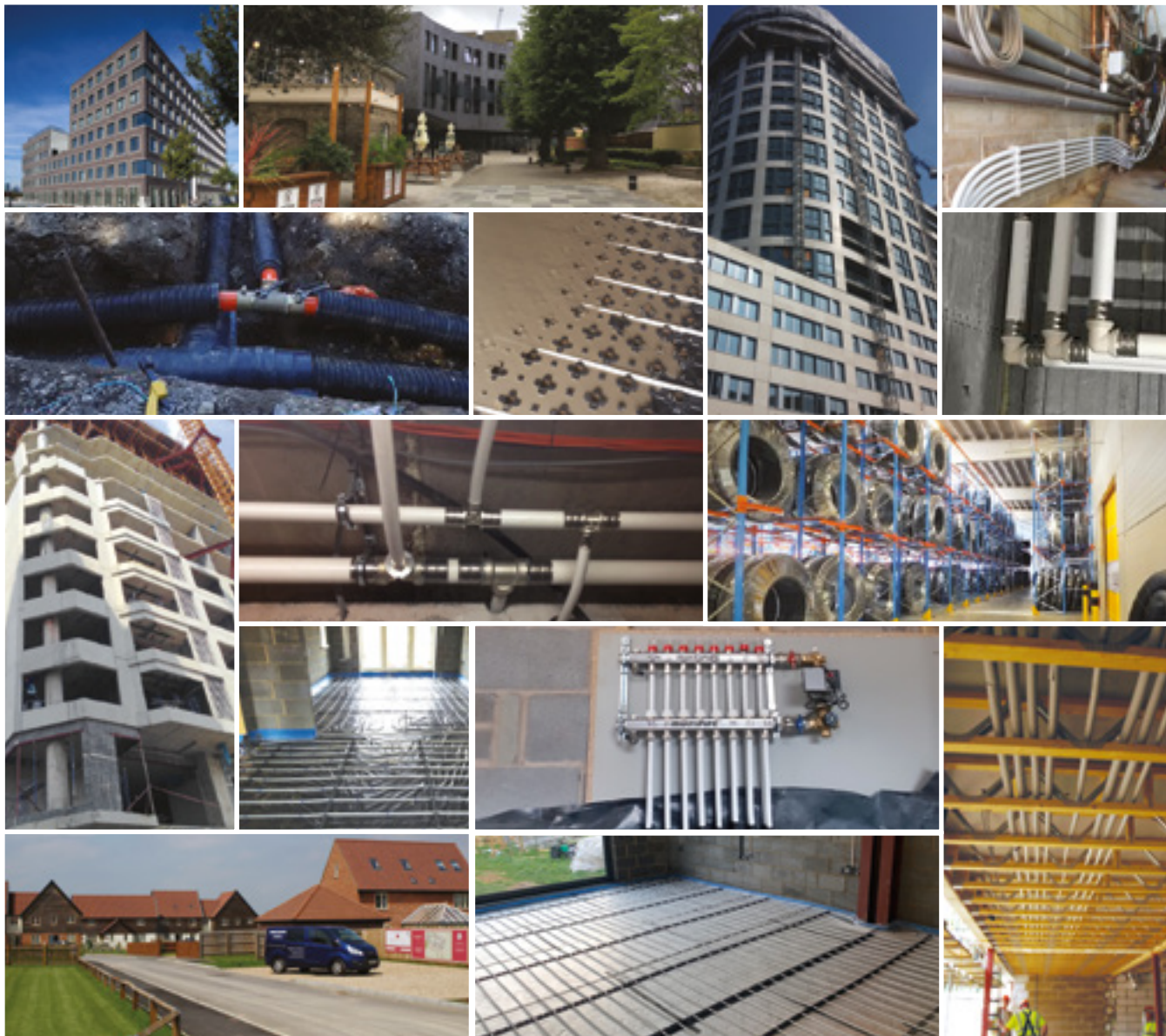


### 'Man in a Van' Support

Our team members at Multipipe are here to help installers and support merchant branches with a hands on approach:

- Site experienced and practically minded guys who can help you when you get stuck
- Can provide training on site or in branch
- Product demonstrations and promotional giveaways at breakfast morning and trade evening events
- Carry on-board spares etc to resolve immediate issues





# multiPIPE



Head Office:

Unit 12, Great Hayes Business Park, Lower Burnham Road, Stow Maries, Chelmsford, CM3 6SQ



[info@multipipe.co.uk](mailto:info@multipipe.co.uk)



[www.multipipe.co.uk](http://www.multipipe.co.uk)



Sales: 01245 227630

Technical: 01245 850799

Fax: 01245 698796