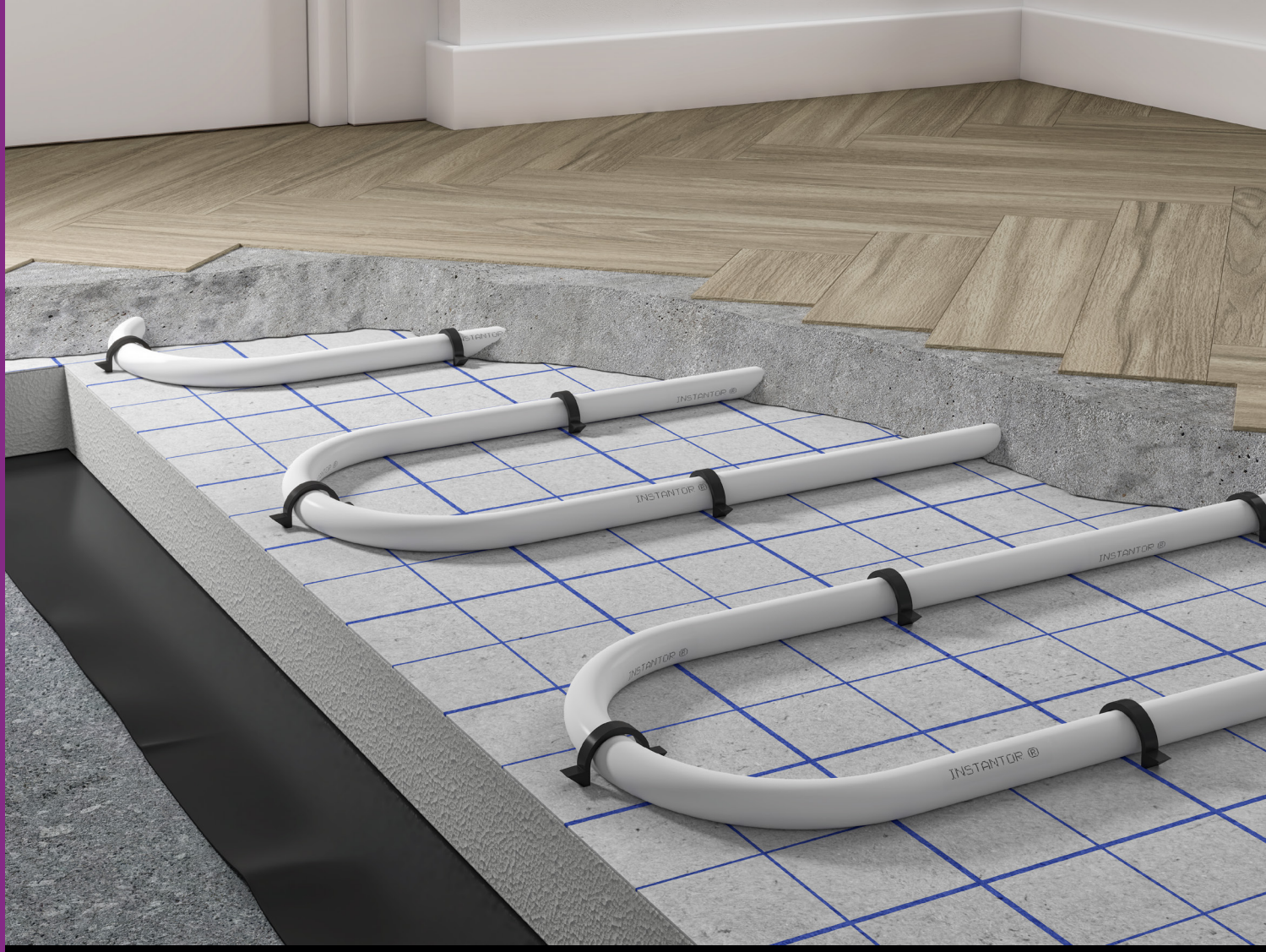

Instantor®

Underfloor Heating

Superior Plumbing Products
for **Professional Plumbers**
Since 1926

06.26

EXPERTISE YOU CAN RELY ON

Instantor brings decades of experience and proven plumbing technology to deliver a complete underfloor heating solution. For 100 years, plumbing and heating products have been the foundation of our business, rigorously tested and proven across projects of all scales throughout Ireland and the United Kingdom. Drawing on this extensive expertise, we have now developed a comprehensive underfloor heating portfolio, combining reliability, efficiency, and ease of installation into a fully integrated solution for professional installers.

Our commitment to quality, compliance, and sustainability underpins every aspect of our business. Instantor holds multiple ISO certifications, and our in-house laboratory operates to standards aligned with those of established industry certification bodies, ensuring products meet the highest levels of performance.

Through active engagement with professional networks and recognition for corporate and sustainability achievements, Instantor demonstrates its unwavering commitment to industry standards and ESG principles.

For installers, this offers:

- **Proven reliability**: Products developed and tested to deliver consistent, long-term performance with a market leading warranty for Underfloor Heating Systems.
- **Ease of installation**: Systems designed for efficiency and "fit-and-forget" confidence on every project.
- **Regulatory assurance**: Solutions that are fully certified, compliant with Building Regulations, and supported by comprehensive ESG standards and warranty coverage.

Instantor underfloor heating represents the culmination of a century of expertise, technical innovation, and industry recognition, providing professional installers with a portfolio they can rely on to deliver performance, safety, and peace of mind for every installation.

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SUPPORTING YOUR PROJECTS EVERY STEP OF THE WAY

Instantor Underfloor Heating technicians provide comprehensive project support, delivering detailed design drawings tailored to your specifications, heat loss calculations that are fully compliant with building regulations, energy efficiency assessments, product specifications, installation guidance, and dedicated technical support, ensuring projects meet regulatory standards and are completed efficiently and on schedule.

All of our heating systems are backed by full professional indemnity insurance, so you can install with confidence knowing the design is covered.

CUSTOMER SUPPORT & AFTERSALES

Instantor provides a full technical service team as part of our Customer Care Department, offering comprehensive support to installers on every project.

Our specialists are available via phone, email, or in person, offering installers, merchants and specifiers the support they need across every project. We guarantee backup and expertise across the country, giving you confidence that every project is supported from design through installation.

HOW IT WORKS

Underfloor heating is a low-temperature heating system that works by circulating warm water through a network of pipes embedded within the floor. The heat is transferred into the floor structure which then radiates warmth evenly across the entire surface and into the room above.

This differs significantly from traditional radiator systems which heat the surrounding air through convection. Radiators create concentrated pockets of heat around the emitter which causes warm air to rise and circulate unevenly throughout the space. In contrast, underfloor heating provides consistent radiant heat rising from the ground up resulting in more even temperature distribution across the room.

Because heat is emitted across the full floor area rather than from a single point source, underfloor heating reduces temperature variation within the space and eliminates the localised hot and cold spots commonly associated with radiators. This creates a more stable and comfortable indoor environment.

Underfloor heating also operates effectively at lower water temperatures than radiator systems, making it a more efficient method of heat distribution while still delivering the same level of thermal comfort.

TRADITIONAL RADIATORS - HEAT RISES TO CEILING

Radiators heat the air, which rises to the ceiling, creating a temperature stratification:

- Warm air accumulates at ceiling level (25˚C)
- Cooler air remains at floor level (18˚C)
- Uneven comfort
- More energy to achieve comfort

UNDERFLOOR HEATING (UFH) - WARMTH FROM THE GROUND UP

UFH heats the floor, which gently warms the room from the ground up - This results in:

- A warm, comfortable floor (25˚C)
- Even temperature throughout the room
- Greater comfort with lower energy use

SCREED & SOLID FLOOR SYSTEMS

INSTANTOR STAPLE-PRO™

The Staple System is a quick, easy to install UFH solution embedded within the floor screed while providing even heat distribution throughout the floor structure. It is ideal for use in new builds and extensions where a solid floor construction is to be used.

The UFH pipework is stapled through the slip membrane/separating layer and into the insulation below.

It is recommended that all pipework is pressure tested prior to the laying of the screed. Where a liquid type screed is to be installed, the slip membrane/separating layer should be sealed to ensure a watertight base is achieved.

For optimum system performance we recommend that the UFH circuit is installed in a spiral pattern.

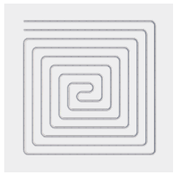
KEY FEATURES

- Cost effective
- Quick and easy to install
- Suitable for use with low temperature heating systems
- High heat output
- Suitable for any floor covering
- No increase in floor height as UFH pipework is embedded within screed

Pipe Types Available	16mm PEX-AL-PEX 16mm 5-Layer PERT/EVOH
Staple Types Available	60mm Welded Staple 40mm Taped Staple
Typical Pipe Spacings (mm)	100mm / 150mm / 200mm

PIPEWORK LAYOUT SUITABILITY

SERPENTINE



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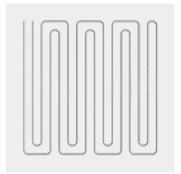


COUNTERFLOW

FLOOR COVERING SUITABILITY

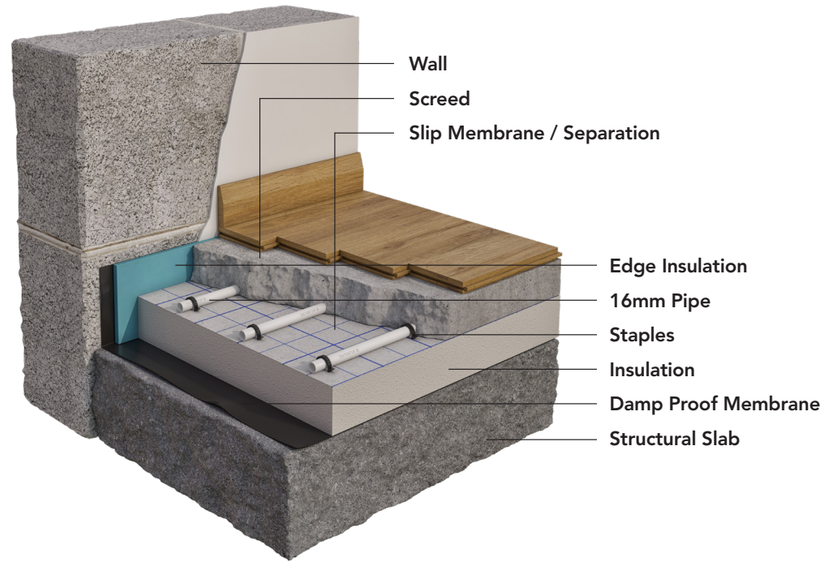
CERAMIC TILE & STONE

SOLID & ENGINEERED WOOD

CARPET

LVT

Seek advice from the floor covering manufacturer regarding installation methods prior to installation.



HEAT OUTPUT TABLES – Watts per m² at 150mm Pipe Centres

Pipe Spacing	150mm				
Design Room Temperature	20°C				
UFH Pipe Circuit ΔT	5°C				
Floor Covering Resistance (TOG)	Flow Temperature (°C)				
	30	35	40	45	50
0.00	50	84	117	–	–
0.50	37	61	86	110	–
1.00	–	44	61	79	96
1.50	–	34	47	61	74
2.00	–	–	40	52	63
2.50	–	–	37	47	58

Please Note - Outputs based on flow temperature with 5°C system ΔT. Room Temperature = 20°C

Pipe Spacing	150mm				
Design Room Temperature	20°C				
UFH Pipe Circuit ΔT	7°C				
Floor Covering Resistance (TOG)	Flow Temperature (°C)				
	30	35	40	45	50
0.00	44	77	111	–	–
0.50	32	56	81	105	–
1.00	–	40	58	75	93
1.50	–	31	45	58	72
2.00	–	–	38	49	61
2.50	–	–	35	45	56

Please Note - Outputs based on flow temperature with 7°C system ΔT. Room Temperature = 20°C

Scan here to explore the system and access installation and technical guides.

INSTANTOR RAIL-PRO™

The Rail System is a quick, easy to install UFH solution embedded within the floor screed. It is ideal for use in new builds and extensions where a solid floor construction is to be used.

The rails come with an adhesive strip and are secured into position above the slip membrane/ separating layer by removing the protective backing strip and laying the rail in position. It is recommended that rails are fixed at 1m intervals across the floor with pipe staples used every 500mm (in between rails) and where the pipe turns in any radii exceeding 45° to further secure the pipework to the insulation.

For added fixing integrity, pipe staples can be pushed through eyelets within the rail to ensure an enhanced fix to the insulation. Once the rails are secured in position the underfloor heating pipework can be laid and affixed into the rails. The rail enables UFH circuit pipework to be spaced at a minimum of 150mm centres and UFH connection pipework to be spaced at 50mm centres.

It is recommended that all pipework is pressure tested prior to the laying of the screed. Where a liquid type screed is to be installed the slip membrane/separating layer should be sealed to ensure a watertight base is achieved.

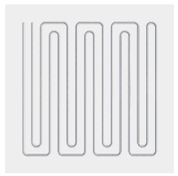
KEY FEATURES

- Cost effective
- Quick and easy to install
- Suitable for use with low temperature heating systems
- High heat output
- Provides an accurate fixing method
- Suitable for any floor covering
- No increase in floor height as UFH pipework embedded within screed

Pipe Types Available	16mm PEX-AL-PEX 16mm 5-Layer PERT/EVOH
Typical Pipe Spacings (mm)	150mm / 200mm

PIPEWORK LAYOUT SUITABILITY

SERPENTINE



COUNTERFLOW

FLOOR COVERING SUITABILITY

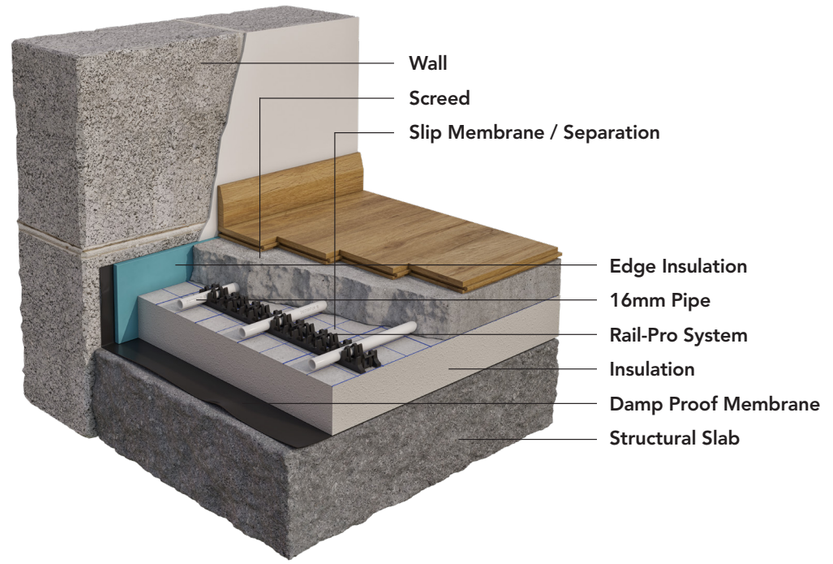
CERAMIC TILE & STONE

SOLID & ENGINEERED WOOD

CARPET

LVT

Seek advice from the floor covering manufacturer regarding installation methods prior to installation.



HEAT OUTPUT TABLES – Watts per m² at 150mm Pipe Centres

Pipe Spacing	150mm				
Design Room Temperature	20°C				
UFH Pipe Circuit ΔT	5°C				
Floor Covering Resistance (TOG)	Flow Temperature (°C)				
	30	35	40	45	50
0.00	50	84	117	–	–
0.50	37	61	86	110	–
1.00	–	44	61	79	96
1.50	–	34	47	61	74
2.00	–	–	40	52	63
2.50	–	–	37	47	58

Please Note - Outputs based on flow temperature with 5°C system ΔT. Room Temperature = 20°C

Pipe Spacing	150mm				
Design Room Temperature	20°C				
UFH Pipe Circuit ΔT	7°C				
Floor Covering Resistance (TOG)	Flow Temperature (°C)				
	30	35	40	45	50
0.00	44	77	111	–	–
0.50	32	56	81	105	–
1.00	–	40	58	75	93
1.50	–	31	45	58	72
2.00	–	–	38	49	61
2.50	–	–	35	45	56

Please Note - Outputs based on flow temperature with 7°C system ΔT. Room Temperature = 20°C

Scan here to explore the system and access installation and technical guides.

INSTANTOR CASTEL-PRO™

The Castellated Panel System is a quick, easy to install UFH solution embedded within either a traditional screed or low-profile self-levelling screed/compound while providing even heat distribution throughout the floor structure.

As the panel uses 16mm pipe, it is ideal for use in new build and renovation projects where low temperature heat sources such as heat pumps are to be used.

Self-adhesive backed panels, cutting grooves spaced at 50mm increments and integrated clips to connect panels securely together make installation incredibly simple.

The castellated panel enables UFH circuit pipework to be spaced at a minimum of 100mm centres (rising in 50mm increments) and UFH connection pipework to be spaced at 50mm centres.

KEY FEATURES

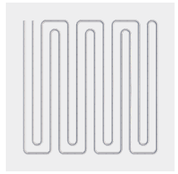
- Can be used with both traditional screeds and low-profile self-levelling screeds/compounds
- Suitable for use with low temperature heating systems
- High heat output
- Enhanced response time when used with low-profile self-levelling screeds/compounds
- Castellations allow for precise pipe layout and protection of pipe while screed/compounds are applied
- Suitable for any floor covering
- Adhesive backed for quick, reliable installation

Pipe Types Available	16mm PEX-AL-PEX 16mm 5-Layer PERT/EVOH
Typical Pipe Spacings (mm)	100mm / 150mm / 200mm

PIPEWORK LAYOUT SUITABILITY

SERPENTINE

SPIRAL



COUNTERFLOW

FLOOR COVERING SUITABILITY

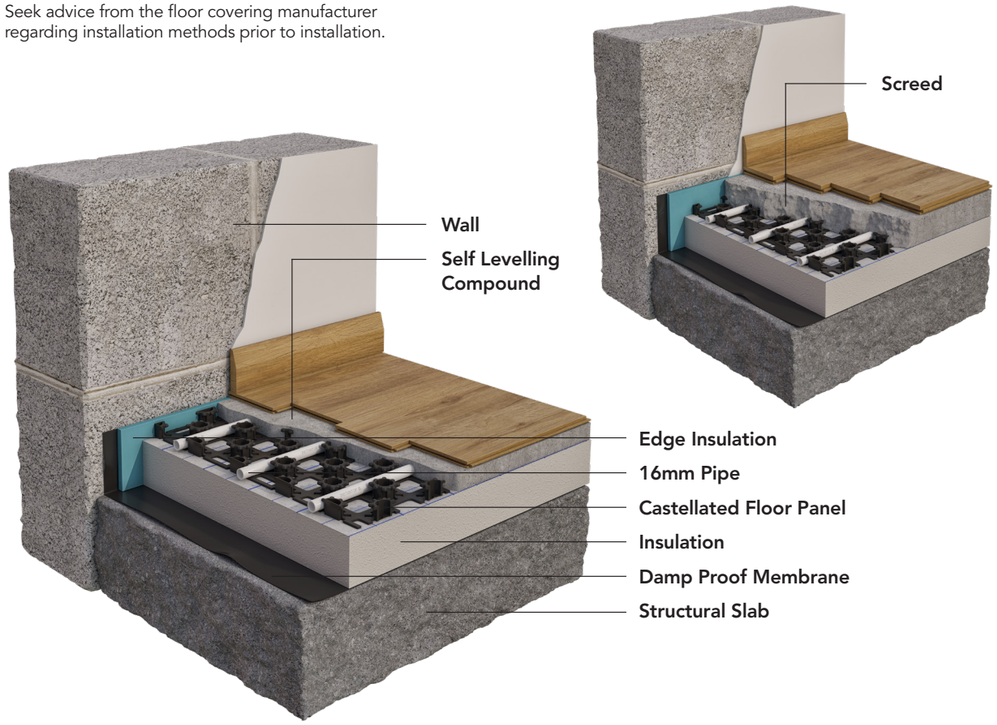
CERAMIC TILE & STONE

SOLID & ENGINEERED WOOD

CARPET

LVT

Seek advice from the floor covering manufacturer regarding installation methods prior to installation.



HEAT OUTPUT TABLES – Watts per m² at 150mm Pipe Centres

Pipe Spacing	150mm				
Design Room Temperature	20°C				
UFH Pipe Circuit ΔT	5°C				
Floor Covering Resistance (TOG)	Flow Temperature (°C)				
	30	35	40	45	50
0.00	50	84	117	–	–
0.50	37	61	86	110	–
1.00	–	44	61	79	96
1.50	–	34	47	61	74
2.00	–	–	40	52	63
2.50	–	–	37	47	58

Please Note - Outputs based on flow temperature with 5°C system ΔT. Room Temperature = 20°C

Pipe Spacing	150mm				
Design Room Temperature	20°C				
UFH Pipe Circuit ΔT	7°C				
Floor Covering Resistance (TOG)	Flow Temperature (°C)				
	30	35	40	45	50
0.00	44	77	111	–	–
0.50	32	56	81	105	–
1.00	–	40	58	75	93
1.50	–	31	45	58	72
2.00	–	–	38	49	61
2.50	–	–	35	45	56

Please Note - Outputs based on flow temperature with 7°C system ΔT. Room Temperature = 20°C

Scan here to explore the system and access installation and technical guides.

OVERLAY & RETROFIT SYSTEMS

INSTANTOR CEM-PRO™

The Cement Faced XPS Panel System is a quick, easy to install panel intended for use in overlay applications. It can be installed over solid and timber substrates, providing the floor is solid and level. Consisting of a high-density 20mm Cement Faced XPS (400 kPa) Panel with 16mm pipework laid at 150mm centres, this system is suitable for use with low temperature heating systems.

Where the subfloor meets SR2 standard, a tiled floor covering can be applied direct to the XPS panels (prior to the installation of tiles the surface should be primed and flexible tile adhesive used to bond tiles). Alternatively, an interlocking wood finish can be applied directly.

For all other floor coverings, a minimum of 6mm self-levelling compound should be applied prior to floor coverings.

KEY FEATURES

- Quick and easy to install
- Suitable for use with low temperature heating systems
- Lightweight and easy to cut/trim
- Low profile floor build-up
- Can be laid over solid or timber floors
- Can be bonded to the sub-floor using suitable flexible adhesive or mechanically fixed using screws and washers if desired
- 400kPa Compressive strength allows for increased structural integrity
- Omega pipe channels ensure pipe stays in place when under tension
- Cement face gives a strong bonding surface
- Easy management of connection pipes with flow and return pathways integrated into the panel

Pipe Types Available	16mm PEX-AL-PEX 16mm 5-Layer PERT/EVOH
Typical Pipe Spacings (mm)	150mm

PIPEWORK LAYOUT SUITABILITY

SERPENTINE

FLOOR COVERING SUITABILITY

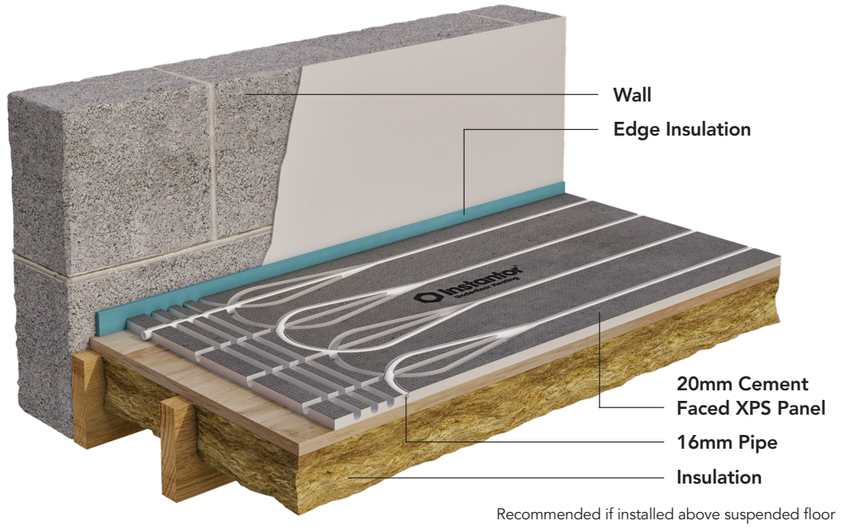
CERAMIC TILE & STONE

SOLID & ENGINEERED WOOD

CARPET

LVT

Seek advice from the floor covering manufacturer regarding installation methods prior to installation.



Recommended if installed above suspended floor

HEAT OUTPUT TABLES – Watts per m² at 150mm Pipe Centres

Pipe Spacing	150mm				
Design Room Temperature	20°C				
UFH Pipe Circuit ΔT	5°C				
Floor Covering Resistance (TOG)	Flow Temperature (°C)				
	30	35	40	45	50
0.00	33	55	77	99	–
0.50	–	40	56	72	88
1.00	–	–	40	52	63
1.50	–	–	32	41	50
2.00	–	–	–	36	44
2.50	–	–	–	34	41

Please Note - Outputs based on flow temperature with 5°C system ΔT. Room Temperature = 20°C

Pipe Spacing	150mm				
Design Room Temperature	20°C				
UFH Pipe Circuit ΔT	7°C				
Floor Covering Resistance (TOG)	Flow Temperature (°C)				
	30	35	40	45	50
0.00	29	51	73	95	–
0.50	–	37	53	69	85
1.00	–	–	38	49	61
1.50	–	–	30	39	48
2.00	–	–	–	34	42
2.50	–	–	–	32	40

Please Note - Outputs based on flow temperature with 7°C system ΔT. Room Temperature = 20°C

Scan here to explore the system and access installation and technical guides.

INSTANTOR FOIL-PRO™

The Foil Faced XPS Panel System is a quick, easy to install panel intended for use in overlay applications where minimising the overall build-up height is required. Can be installed over solid and timber substrates, providing the floor is solid and level.

Consisting of a high-density 18mm aluminium foil faced XPS (400 kPa) panel incorporating 12mm pipework laid at 150mm centres, this can be used with low temperature heating systems as the foil face helps maximise efficiency by spreading heat across the foil, and through the finished floor coverings.

Suitable for use with carpets and tiles where a structural/decoupling layer (such as Murexin 4mm Unitop bonded to the foil using Murexin MS K-509 Contact Adhesive) is installed over the foil faced XPS panels. Timber flooring >15mm thick can be installed directly over the foil faced XPS panels.

KEY FEATURES

- Quick and easy to install
- Suitable for use with low temperature heating systems
- Lightweight and easy to cut/trim
- Low profile floor build-up
- Can be laid over solid or timber floors
- 400kPa Compressive strength allows for increased structural integrity
- Omega pipe channels ensure pipe stays in place when under tension
- Easy management of connection pipes with flow and return pathways integrated into the panel

Pipe Types Available	12mm 5-Layer PERT/EVOH
Typical Pipe Spacings (mm)	150mm

PIPEWORK LAYOUT SUITABILITY

SERPENTINE

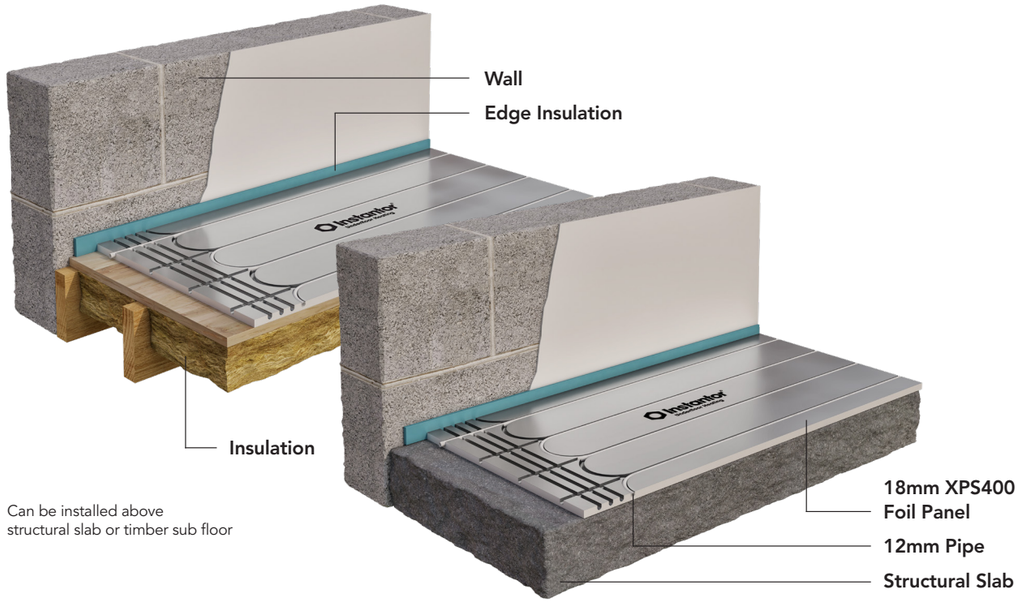
FLOOR COVERING SUITABILITY

SOLID & ENGINEERED WOOD

CARPET

LVT

Seek advice from the floor covering manufacturer regarding installation methods prior to installation.



Can be installed above structural slab or timber sub floor

HEAT OUTPUT TABLES – Watts per m² at 150mm Pipe Centres

Pipe Spacing	150mm				
Design Room Temperature	20°C				
UFH Pipe Circuit ΔT	5°C				
Floor Covering Resistance (TOG)	Flow Temperature (°C)				
	30	35	40	45	50
0.00	32	54	75	97	118
0.50	–	35	49	63	77
1.00	–	–	30	38	47
1.50	–	–	–	–	33
2.00	–	–	–	–	–
2.50	–	–	–	–	–

Please Note - Outputs based on flow temperature with 5°C system ΔT. Room Temperature = 20°C

Pipe Spacing	150mm				
Design Room Temperature	20°C				
UFH Pipe Circuit ΔT	7°C				
Floor Covering Resistance (TOG)	Flow Temperature (°C)				
	30	35	40	45	50
0.00	–	49	71	92	114
0.50	–	32	46	60	74
1.00	–	–	–	37	45
1.50	–	–	–	–	32
2.00	–	–	–	–	–
2.50	–	–	–	–	–

Please Note - Outputs based on flow temperature with 7°C system ΔT. Room Temperature = 20°C

Scan here to explore the system and access installation and technical guides.

INSTANTOR POCKET-PRO™

The Pocket Routed XPS Panel System is a quick, easy to install panel intended for use in overlay applications. Designed to increase system performance over traditional overlay panel systems, the panels include pockets routed into the XPS panel which allow levelling compound to more efficiently enclose the pipe, increasing overall system performance by up to 20%.

Note: This system can only be covered with levelling compound.

After installation of all pipework and pressure testing, the panels should be primed before a minimum of 6mm of levelling compound is applied to the surface. For LVT floor coverings it is recommended that a minimum of 10mm of levelling compound is applied.

Due to the increased level in system performance, this UFH system complements the use of low temperature heat sources.

KEY FEATURES

- Quick and easy to install
- Suitable for use with low temperature heating systems
- Ultra-high heat output due to the pockets increasing system performance
- Lightweight and easy to cut/trim
- Low profile floor build-up
- Can be laid over solid or timber floors
- 400kPa Compressive strength allows for increased structural integrity
- Omega pipe channels ensures pipe stays in place when under tension
- Easy management of connection pipes with flow and return pathways integrated into the panel

Pipe Types Available	16mm PEX-AL-PEX 16mm 5-Layer PERT/EVOH
Typical Pipe Spacings (mm)	150mm

PIPEWORK LAYOUT SUITABILITY

SERPENTINE

FLOOR COVERING SUITABILITY

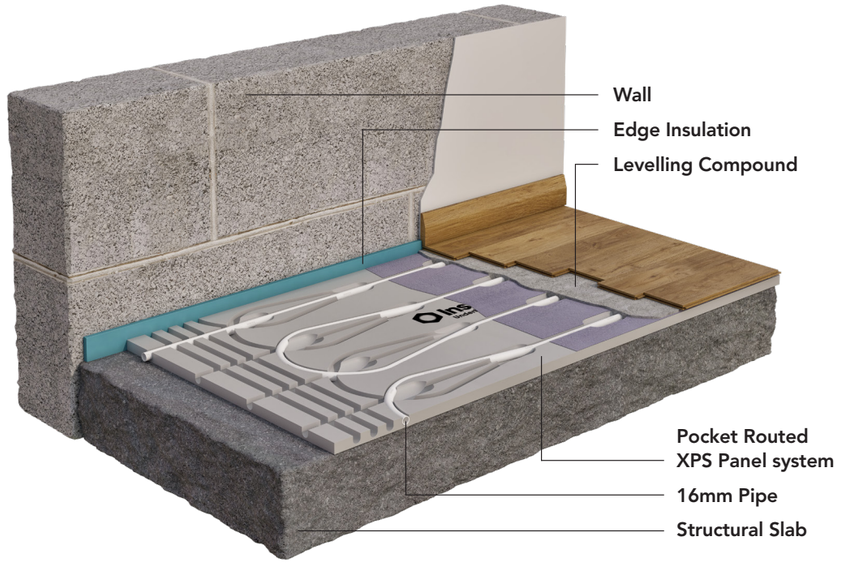
CERAMIC TILE & STONE

SOLID & ENGINEERED WOOD

CARPET

LVT

Seek advice from the floor covering manufacturer regarding installation methods prior to installation.



HEAT OUTPUT TABLES – Watts per m² at 150mm Pipe Centres

Pipe Spacing	150mm				
Design Room Temperature	20°C				
UFH Pipe Circuit ΔT	5°C				
Floor Covering Resistance (TOG)	Flow Temperature (°C)				
	30	35	40	45	50
0.00	36	60	84	108	–
0.50	–	48	67	86	105
1.00	–	38	53	68	83
1.50	–	30	42	54	66
2.00	–	–	35	45	55
2.50	–	–	33	43	52

Please Note - Outputs based on flow temperature with 5°C system ΔT. Room Temperature = 20°C

Pipe Spacing	150mm				
Design Room Temperature	20°C				
UFH Pipe Circuit ΔT	7°C				
Floor Covering Resistance (TOG)	Flow Temperature (°C)				
	30	35	40	45	50
0.00	31	55	79	103	–
0.50	–	44	63	82	101
1.00	–	35	50	65	80
1.50	–	–	40	52	64
2.00	–	–	33	43	53
2.50	–	–	31	41	50

Please Note - Outputs based on flow temperature with 7°C system ΔT. Room Temperature = 20°C

Scan here to explore the system and access installation and technical guides.

SUSPENDED FLOOR SYSTEM

INSTANTOR CHIPDECK-PRO™

The Foil Strip & Routed Chipboard System is a structurally tested multidirectional 22mm chipboard underfloor heating panel designed to directly substitute the standard chipboard deck in a suspended or batten floor construction. It can be used with joist centres up to 600mm.

The panels are pre-grooved with a multidirectional pattern to allow UFH circuits to navigate around the room with our 12mm PERT/EVOH pipe. They also come with a pre-bonded aluminium diffuser strip that ensures the radiant heat is diffused across the floor while ensuring a strong bond can be achieved between the chipboard panel and the cover panel.

When combined with our 6mm cement coverboard, the system allows for maximum heat transfer, output and structural integrity of the floor.

Alternatively, a 4mm Murexin Unitop Decoupling Panel can be bonded to the chipboard using Murexin MS-K509 Contact Adhesive which will maintain structural integrity and overall system performance/efficiency, or a 6mm flooring grade plywood can be used which must be bonded and mechanically fixed to chipboard (overall system efficiency and performance will be reduced when using plyboard).

KEY FEATURES

- Quick heat up time and heat retention
- Suitable for use with low temperature heating systems
- Suitable for joist centres of up to 600mm
- Can be used in new build and renovation projects
- Pre-grooved with multidirectional pattern
- Aluminium foil diffuser strip ensures effective heat transfer
- Fluted exits enables pipe to be laid without snagging adjacent panels

Pipe Types Available	12mm 5-Layer PERT/EVOH
Typical Pipe Spacings (mm)	150mm

PIPEWORK LAYOUT SUITABILITY

SERPENTINE

FLOOR COVERING SUITABILITY

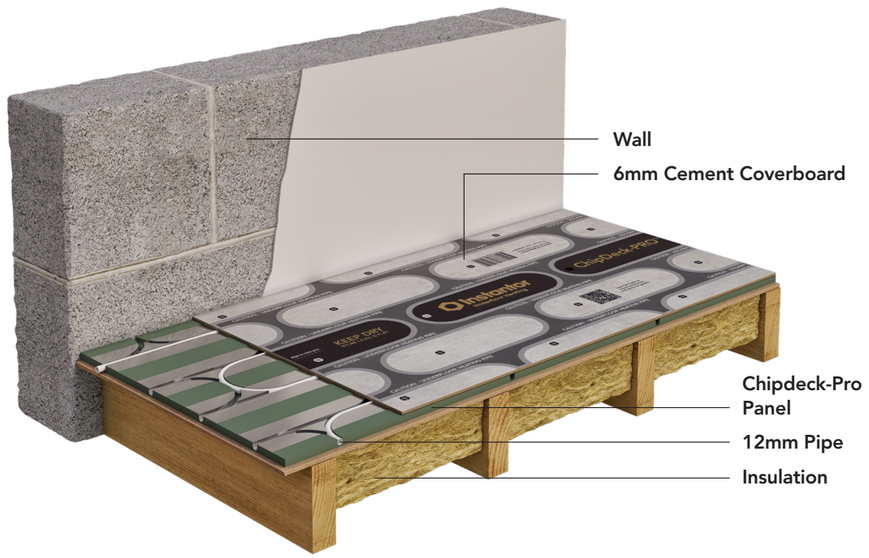
CERAMIC TILE & STONE

SOLID & ENGINEERED WOOD

CARPET

LVT

Seek advice from the floor covering manufacturer regarding installation methods prior to installation.



HEAT OUTPUT TABLES – Watts per m² at 150mm Pipe Centres

Pipe Spacing	150mm				
Design Room Temperature	20°C				
UFH Pipe Circuit ΔT	5°C				
Floor Covering Resistance (TOG)	Flow Temperature (°C)				
	30	35	40	45	50
0.00	–	39	54	69	85
0.50	–	34	48	61	75
1.00	–	30	42	54	66
1.50	–	–	37	47	58
2.00	–	–	33	43	53
2.50	–	–	31	40	49

Please Note - Outputs based on flow temperature with 5°C system ΔT. Room Temperature = 20°C

Pipe Spacing	150mm				
Design Room Temperature	20°C				
UFH Pipe Circuit ΔT	7°C				
Floor Covering Resistance (TOG)	Flow Temperature (°C)				
	30	35	40	45	50
0.00	–	35	51	66	82
0.50	–	31	45	58	72
1.00	–	–	39	51	63
1.50	–	–	35	45	56
2.00	–	–	32	41	51
2.50	–	–	30	38	47

Please Note - Outputs based on flow temperature with 7°C system ΔT. Room Temperature = 20°C

Scan here to explore the system and access installation and technical guides.

SUSPENDED FLOOR SYSTEM

SINGLE ROOM PACKS

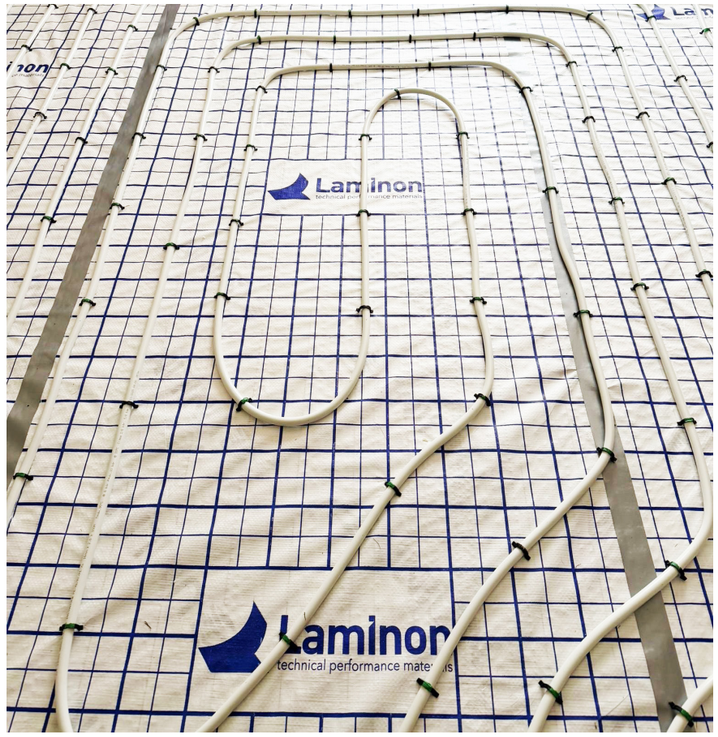
INSTANTOR SINGLE ROOM PACKS

Instantor underfloor heating single room packs are designed with installers in mind, offering a fast and reliable solution for one-room renovations, extensions, or retrofit projects. Each pack includes all essential components required to install a single-zone system, removing the need for design plans or technical drawings. This enables a quicker turnaround on-site while simplifying the overall installation process.

Available for solid and overlay floors, the range caters for room sizes from 15m² to 50m², and provides the perfect solution for a wide range of applications.

Single room packs also integrate seamlessly with existing heating systems. A range of control options are available, allowing installers to tailor system setup and commissioning to suit the specific requirements of each project.

To find the underfloor heating room pack that best suits your requirements, simply scan the QR code.



Scan here to explore the system and access installation and technical guides.

THERMOSTATS

ST-300 WIRED PROGRAMMABLE THERMOSTAT

- Built-in energy saving mode provides a manual or auto set back function, reducing temperature to a pre-selected level at a set time
- Weekly planned cycles with 5 working days and 2 weekend choices (5+2 or 5+1+1), and each day can have up to 6 on/off cycles
- A highly accurate internal temperature sensor for 0.5°C temperature increments
- Positive, ergonomic push buttons and slimline 14mm thick styling
- Feature rich design, including open window detection and temporary override button
- Capable of supporting an external sensor
- Can be used in single zone applications
- Locking function to prevent misuse
- Ultra low power consumption of less than 1 Watt

Scan for more information

MU-200 WIRED PROGRAMMABLE THERMOSTAT

- Can be controlled by an app on a smartphone or directly using the soft-touch icons
- Removes the need for an additional router, saving time and money
- The Smart Life Plug and Play app makes installation quick and easy, with intuitive management features it works with smart home devices from Google, Amazon and Apple
- Incorporates weekly planned cycles with 5 working days and 2 separate weekend choices (5+1+1) and each day can have up to 6 on/off cycles
- A highly accurate internal temperature sensor for 1°C increments
- User-friendly LED display and touch-sensitive buttons
- Ultra-thin embedded panel seamlessly fits various wall types
- Sleek, borderless design with rounded corners
- Capable of supporting an external sensor
- Can be used in single zone applications
- Power-off protection to securely save all settings
- 16A Load enabling the control of electric underfloor heating systems

Scan for more information

WR-304 WIRELESS PROGRAMMABLE SMART THERMOSTAT

- Precise management of UFH or zonal heating systems through wireless communication with the KF-304 wiring centre, and optional WR-300 Gateway for access via Smartphone and the Smart Life app
- 7 day, 5+2 day & 5+1+1 options, each day can have up to 6 on/off cycles
- Optimum Start Functionality allows the thermostat to learn required heating time, ensuring the target temperature is reached exactly at the programmed time
- Screen simultaneously displays set temperature, room temperature, and current time
- Works with Smart home devices from Google & Amazon
- Smartphone or direct control
- Capable of supporting an external sensor
- Powered by 2x AA batteries
- Anti-freezing protection

Scan for more information

EA-700 WIRELESS SINGLE UFH ZONE PROGRAMMABLE SMART THERMOSTAT

- Large, backlit display for complete control over 1x UFH zone
- Time-Proportional-Integral (TPI) control intelligently modulates the boiler to reduce overshoot, and enhance energy efficiency
- Open Window Detection (OWD) automatically pauses heating when a sudden drop in temperature is detected
- 7-day programming, each day can have up to 6 on/off cycles
- EA-713 Wi-Fi Receiver Unit connects wirelessly
- The EA-713 also offers zone expansion on existing UFH systems, providing switching to integrate a new UFH Zone into KF Series Wiring Centres
- Works with smart home devices from Google & Amazon, via Smart Life App
- Smartphone or direct control
- Intelligent efficiency with TPI Control
- Powered by 2x AA batteries
- Includes child lock feature to prevent unintended adjustments

Scan for more information

TEMPERATURE SENSORS

BP-260 BUTTON SENSOR

- Multi-use temperature button sensor for Whisper thermostats
- Can be used as a remote sensor to improve temperature control, or as a through wall wet room sensor to shield wiring from moisture ingress
- Discrete 12mm diameter flat surfaced button design, 1mm thick for on surface plasterboard mounting, or similar
- 8mm diameter shoulder suitable for standard drill bit size holes
- Thick semi-rigid cable for ease of feeding through cavities
- Suitable for wet rooms with stainless steel anti corrosive probe
- High accuracy of 1% giving installer confidence

TP-200 BULLET SENSOR

- Multi use temperature bullet sensor for Whisper thermostats
- Can be used as a remote sensor to improve temperature control, or as a floor sensor to protect underfloor heating from overheating
- Slimline design for easy installation
- Suitable for wet rooms with stainless steel anti corrosive probe
- High accuracy of 1% for peace of mind

RH-300 BUTTON SENSOR HOUSING

- Simple, ABS plastic housing for remote sensors
- Universal design for easy installation - sensor clips to the back plate
- Surface-mounted and suitable for wall installation or over single gang back box
- Slim profile with a depth of only 21mm

WIRING CENTRES

KF-510 (6 OR 10 WAY) WIRING CENTRE (HARD WIRED)

- Well sized, robust design, with 6 or 10 zones as standard
- Volt free boiler interlock and an adjustable pump delay
- Integrated connections for two independent valves, typically hot water cylinder and first floor radiator circuits
- Dedicated dip switch to opt the circuit out of operating the secondary circulation pump
- Generous cabling entries offers neater, less crowded installation
- LED lit circuits for power, boiler, pump and one of the additional valves

KF-304 RF 8 WAY RF WIRING CENTRE

- Integrates with WR-304 thermostats and provides secure technology
- 8 Zone wireless central control system designed specifically for hydronic UFH and zonal heating applications
- Transmits and receives RF 868 Mhz signals, switching between TX and RX modes
- Can wirelessly receive signals from up to 8x WR-304 RF thermostats
- As a central control unit, also manages the primary boiler / heat source via a volt-free output whilst complying with modern heating control standards
- 5 Minute pump and boiler delay function
- LED indicators display system status, and separate room channel indicators
- Remote management of RF-paired WR-304 thermostats via Smart Life app.

Note: While a single gateway can support up to 10 thermostats, we recommend installing one WR-300 per KF-304 wiring centre to ensure optimal performance and network stability.

ACTUATOR

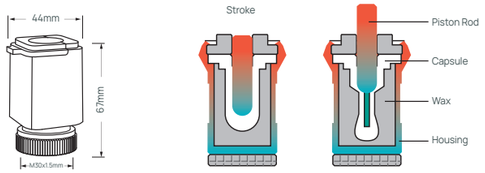
TS-35 MANUALLY OPEN ASCENT THERMAL ACTUATOR

- Engineered to make installation, commissioning, and maintenance faster and more efficient
- Manual Open (MO) function sets it apart from standard actuator valves, allowing installers to save time by quickly opening the valve for system filling, testing, and troubleshooting
- Installs in any orientation, making it easy to adapt to manifold layouts
- Robust IP54-rated construction provides reliable protection against dust and water ingress
- Strong actuation force of up to 120N with a 4mm stroke, ensures secure valve closure
- Supplied with 1 metre of pre-wired cable for quick connection

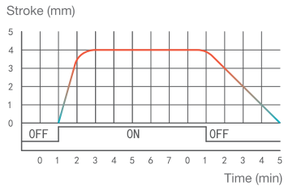
TECHNICAL SPECIFICATION

Item	TS-35 MO Ascent Thermal Actuator 230v 2 Wire NC
Product Code	TACT-0301
Dimensions	67mm x 44mm
Mounting	M30 x 1.5mm
Weight	100.7g
Colour	White, Blue, Orange, Green, Purple
Version	NC Normally Closed
Voltage	230V AC 50Hz
Power Consumption	2.5W
Max Current	300mA
Protection Rating	IP54
Cable	1m, 2 wire x 0.5mm
Working Temp	-10°C - +50°C
Material	PA66 +15% GF
Stroke Length	4mm
Opening Time	3 minutes
Force	120N -/+10N
Compliance	EN60730

PRODUCT DIMENSIONS & WORKING STATUS



OPERATION CURVE DIAGRAM



INSTALLATION

Adjust the manual switch to a 90˚ position to activate the open status.

Before actuator installation, please make sure that the valve installation thread meets the M30*1.5 standard.

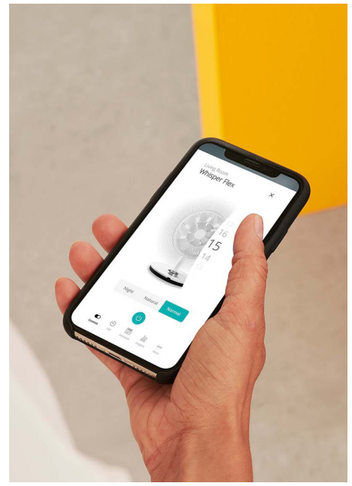
Install the nut onto the valve in a clockwise direction and tighten it.

Toggle the rebound switch to reset, and the installation is complete.

SMART LIFE APP

Whisper Smart Life App–For the Professional

The Smart Life app seamlessly integrates with Whisper's smart thermostat controls including the MU-200 wired and WR-304 wireless options, to provide an "all-in-one" management platform and save time on site.



INSTALLER BENEFITS:
- Rapid system commissioning
- Fit-and-forget reliability to help avoid callbacks
- Reduced on-site pairing time
- Technical support by providing Whisper with remote access

M&E CONSULTANT AND SPECIFIER BENEFITS:
- Control system complies with UK Safety and Cyber Security standards without external contractor costs
- Compliance with Approved Document L regarding "effective control" and BS EN 1264 installation standards

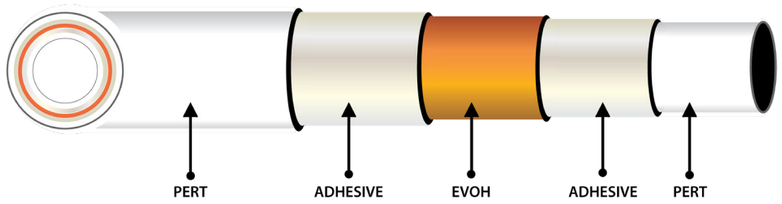
BENEFITS FOR YOUR HOMEOWNER CUSTOMERS:
- User-friendly set up and visibility of energy savings achieved
- Ability to create personalised heating schedules and adjust heating from a smartphone
- Access to a range of features that help to reduce energy bills and enhance control
- Easy sharing to allow family, friends and tenants to also access the app and control heating
- Can connect Whisper controls to Amazon Alexa or Google Assistant for voice control
- Can manage Whisper thermostats together with lighting, security and appliances from 7,600 other brands

BENEFITS FOR YOUR COMMERCIAL CUSTOMERS:
- Provides whole building programming to optimise heating across entire complexes
- Shuts down complete heating systems with one simple command to save energy during non-working hours
- Uses remote adjustments and diagnostics that support system commissioning, servicing and maintenance

Whisper Controls also provide the reassurance of knowing that they comply with UK regulations including the Product Security and Telecommunications Infrastructure (PSTI) Act 2022 and General Data Protection Regulation (UK GDPR).

PIPE

INSTANTOR PERT-EVOH-PERT



Instantor® PERT EVOH multilayer pipe is engineered specifically for underfloor heating and low temperature heating systems. Manufactured to UNI ES ISO 22391, the pipe combines the flexibility and thermal stability of PERT with a highly effective EVOH oxygen-barrier layer.

It's 5-layer structure offers excellent resistance to continuous heating cycles, reduced thermal expansion compared with standard single-layer plastics, and long-term reliability. The EVOH barrier also prevents oxygen ingress into the heating circuit, protecting system components such as manifolds, pumps and valves from corrosion.

KEY FEATURES

- Provides easy and flexible installation with small bending radii, ideal for UFH systems
- High thermal resistance makes it ideal for sustained loads with strong long-term creep resistance
- 5-Layer EVOH barrier has extremely low oxygen permeability (<0.1mg/l)
- Stable molecular structure eliminates the risk of brittleness or defect formation
- Enhanced mechanical strength delivers assured reliability under temperature cycling
- Environmentally friendly and fully recyclable

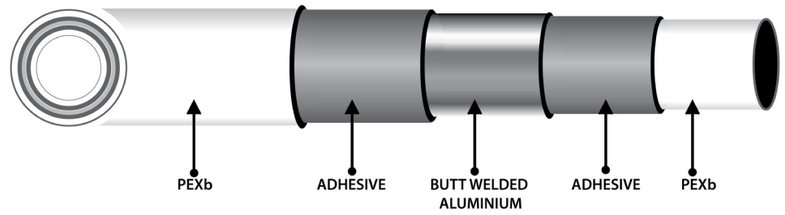
TECHNICAL SUMMARY

- **Maximum Operating Temperature**: 95°c
- **Maximum Operating Pressure (Class 4/5)**: 8/6 bar
- **Thermal Conductivity**: 0.38W/mK
- **Linear Expansion Coefficient**: 0.018mm/mK
- **Oxygen Diffusion Rate**: <0.1mg/l (EVOH Barrier)
- **Minimum Bending Radius**: 80mm (5 times the diameter)

SIZE	CODE
12mm x 50m	UFPERT101
12mm x 80m	UFPERT102
12mm x 150m	UFPERT103
12mm x 300m	UFPERT104
12mm x 500m	UFPERT105
16mm x 80m	UFPERT201
16mm x 100m	UFPERT202
16mm x 200m	UFPERT203
16mm x 300m	UFPERT204
16mm x 500m	UFPERT205

Scan for more information

INSTANTOR PEX-AL-PEX



INSTANTOR® Pex-Al-Pex (PE-xB/Al/PE-xB) is a multilayer pipe NSAI Certified to EN ISO 21003 and WRAS approved, combining all the advantages of metal and plastic pipe.

This pipe is constructed with a double inner and outer layer of Silane method crosslinked polyethylene PE-xB, then bound by quality adhesive to a longitudinally TIG butt welded 100% oxygen tight aluminium layer.

It is this aluminium layer that allows the pipe to maintain its shape after bending. Total hygiene and high corrosion resistance is ensured as fluids come in contact with the inner PE-xB layer only.

KEY FEATURES

- **Flexible Pipe** – Lightweight yet robust, the pipe is designed to retain its shape after bending, allowing for quick installation and precise positioning.
- **Butt Welded Construction** – Engineered with a seamless butt-welded finish, delivering exceptional strength and long-term reliability. Fully resistant to oxygen ingress and water vapour, ensuring system integrity.
- **Highly Durable** – Built to perform under demanding conditions, withstanding continuous operating temperatures of up to 95°C without compromising performance.
- **Versatile Applications** – Ideal for underfloor heating systems, potable water distribution, and a wide range of general plumbing uses.

TECHNICAL SUMMARY

- **Max Operating Pressure**: 10 bar
- **Max Operating Temperature**: 95°C
- **Max Peak Temperature (at 1 hour)**: 110°C
- **Application Class**: 2/6 bar, class 5/6 bar
- **Coefficient of Expansion**: 0.025mm/m°C
- **Oxygen Permeability**: 0mg/l
- **Thermal Conductivity**: 0.43W/mk

SIZE	CODE
16mm x 80m	IPAP108
16mm x 100m	IPAP101
16mm x 200m	IPAP107
16mm x 300m	IPAP109
16mm x 500m	IPAP105

Scan for more information

MANIFOLDS & ACCESSORIES

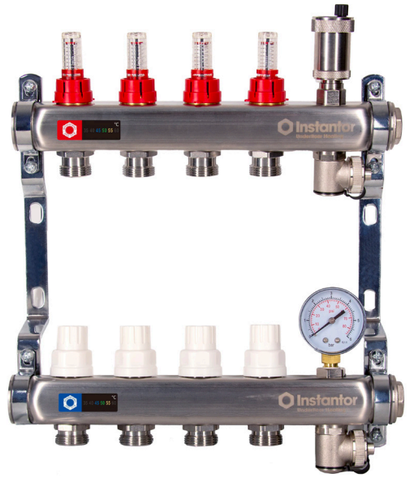
INSTANTOR MANIFOLDS

KEY FEATURES

- Pre-assembled for fast installation to save time on site and simplify system setup
- High-quality stainless-steel construction offers excellent corrosion resistance and long life
- 3/4" Eurocone connections are compatible with a wide range of underfloor heating pipe systems
- Integrated fill & drain valves enable quick system filling, flushing, and maintenance
- Built-in pressure gauge allows accurate system monitoring and diagnostics
- Flow and return temperature sensor points for precise monitoring of supply and return temperatures
- Heavy-duty mounting brackets included for secure installation
- Compact, service-friendly design allows for easy access, adjustment, and ongoing system maintenance

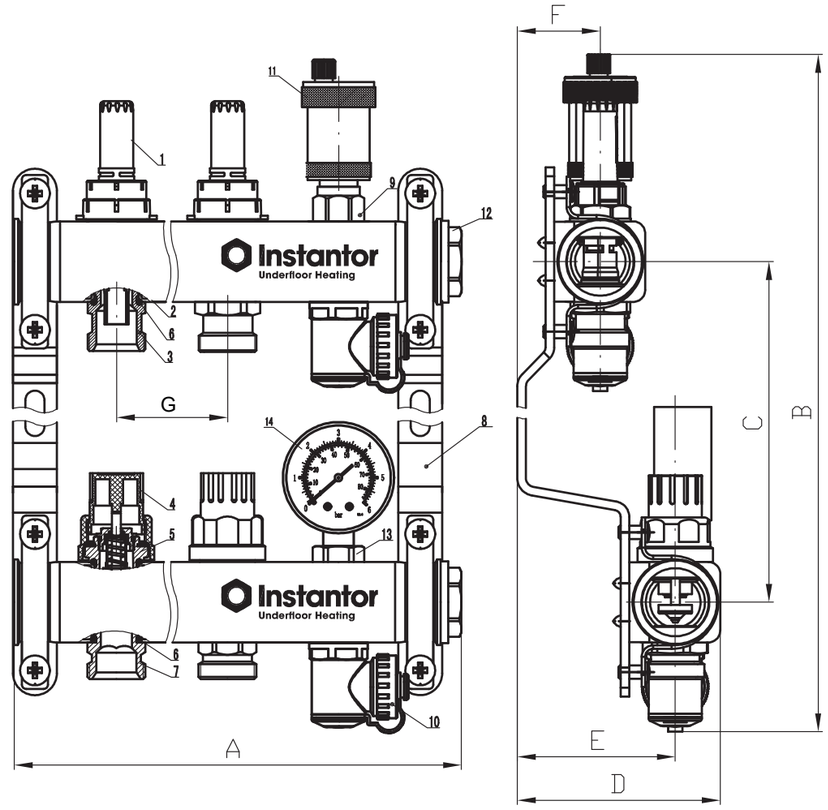
TECHNICAL SUMMARY

- 2-12 Port
- 0-5l/m Flow Meters
- Automatic Air Vent
- Pressure Gauge
- **Working Temperature**: 10 - 80°C
- **Maximum Working Pressure**: 10 BAR



PORTS	CODE
2	UF10002
3	UF10003
4	UF10004
5	UF10005
6	UF10006
7	UF10007
8	UF10008
9	UF10009
10	UF10010
11	UF11011
12	UF10012

Scan for more information



MANIFOLD MATERIALS

REFERENCE	MATERIAL
1	HPb57-3
2	SS304
3	SS304
4	ABS
5	SS304
6	EPDM
7	SS304
8	A3
9	HPb57-3
10	HPb57-3
11	HPb57-3
12	HPb57-3
13	HPb57-3
14	HPb57-3

MANIFOLD DIMENSIONS *(Dimensions in mm)*

REFERENCE	A	B	C	D	E	F	G
2 Port	201	362	210	191.5	71	37.5	50
3 Port	251	362	210	191.5	71	37.5	50
4 Port	301	362	210	191.5	71	37.5	50
5 Port	351	362	210	191.5	71	37.5	50
6 Port	401	362	210	191.5	71	37.5	50
7 Port	451	362	210	191.5	71	37.5	50
8 Port	501	362	210	191.5	71	37.5	50
9 Port	551	362	210	191.5	71	37.5	50
10 Port	601	362	210	191.5	71	37.5	50
11 Port	651	362	210	191.5	71	37.5	50
12 Port	701	362	210	191.5	71	37.5	50

INSTANTOR THERMOSTATIC MIXING VALVE

KEY FEATURES & BENEFITS

- Compact unit connects to manifold without additional isolation valves
- Isolation valves installed where primary pipework enters mixing valve
- Flow & return connections can be adjusted to allow for horizontal or vertical connection to primary pipework
- Visible temperature gauge enabling quick confirmation of UFH flow temperature

MIXING VALVE TECHNICAL SUMMARY

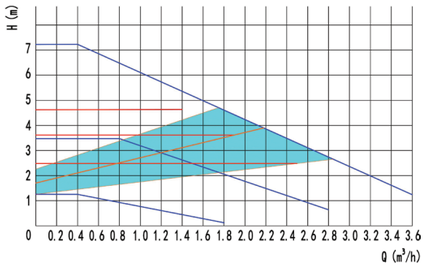
- **Adjustable Temperature Range**: 25 - 55°C
- **Temperature Stability**: +/- 3°C
- **Working Temperature Range**: 10 - 80°C
- **Maximum Working Pressure**: PN10
- **Maximum Differential Pressure**: 1 Bar

PUMP TECHNICAL SUMMARY

- **Supply Voltage**: 1 x 230V - 50/60HZ
- **Head Rate, Hmax**: 7m
- **Flow Rate, Qmax**: 3.2m³/h
- **Power Range**: 45W
- **EEI**: ≤ 0.20
- **Liquid Temperature**: +2°C to +95°C (TF95)
- **Ambient Temperature**: 0°C to +40°C
- **Enclosure Protection Class**: IP44
- **Insulation Class**: H

CODE	DESCRIPTION
UF10020	UFH Thermostatic Mixing Valve
772207	7m Circulating Pump

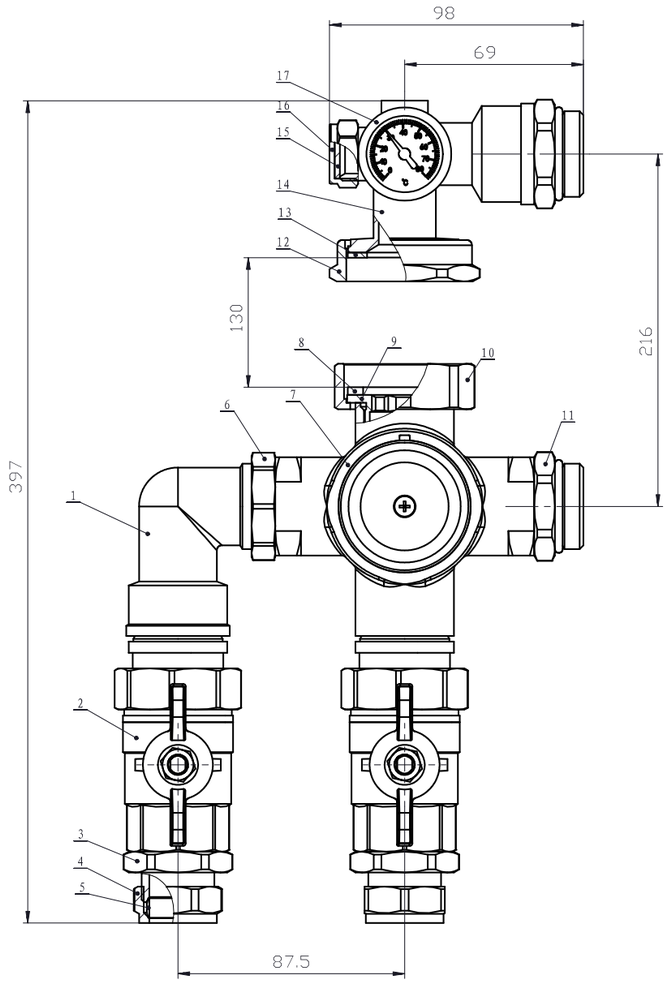
PUMP PERFORMANCE DATA



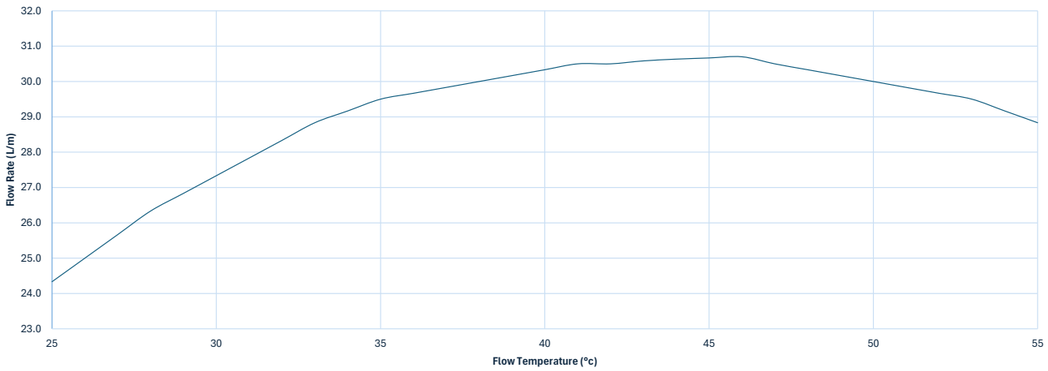
Scan for more information

MIXING VALVE MATERIALS

REFERENCE	MATERIAL
1	HPb57-3
2	HPb57-3
3	HPb57-3
4	HPb57-3
5	HPb57-3
6	HPb57-3
7	HPb57-3
8	EPDM
9	HPb57-3
10	HPb57-3
11	HPb57-3
12	HPb57-3
13	EPDM
14	HPb57-3
15	EPDM
16	HPb57-3
17	HPb57-3



MIXING VALVE PERFORMANCE DATA



ACCESSORIES

LAMINON HIGH-PERFORMANCE MEMBRANE

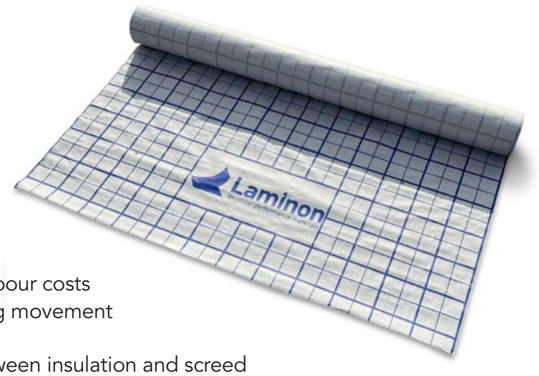
Laminon is a high-performance membrane developed specifically for use in underfloor heating systems, providing a reliable and efficient method for securing pipework prior to screeding. Manufactured from a durable, reinforced woven material, it features a clearly printed grid spaced at 50mm centres that enables precise pipe spacing and layout. This ensures a consistent and professional installation, helping installers achieve optimal system performance with minimal guesswork.

Designed to streamline the installation process, Laminon not only improves accuracy but also significantly reduces labour time on site and by firmly holding pipes in position, it prevents movement or "float" during screeding.

Additionally, the visible grid layout allows for easy documentation and verification, supporting quality assurance and warranty requirements.

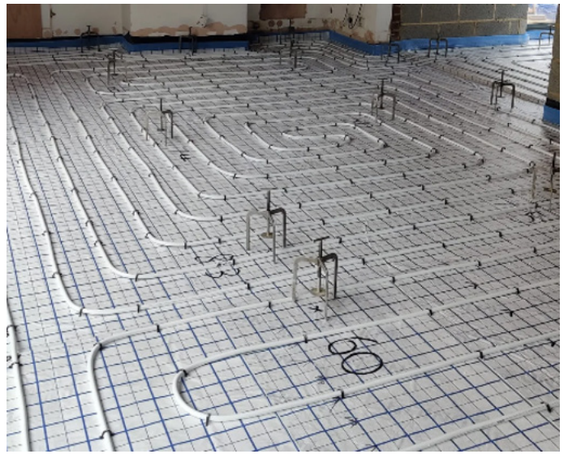
SIZES AVAILABLE

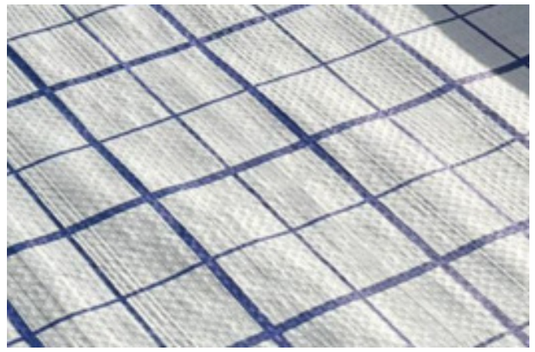
- 1.2m x 25m Roll
- 1.2m x 100m Roll



FEATURES & BENEFITS

- Printed grid system ensures accurate and consistent pipe spacing
- Reduces installation time by up to 45%, improving on-site efficiency and lowering labour costs
- Securely holds pipework in place, preventing movement or float during screeding
- Acts as slip membrane/separation layer between insulation and screed
- Allows installer to document pipe layout easily for warranty or pipe spacing verification purposes
- Durable, high tensile material designed to withstand demanding site conditions





ACCESSORIES

CODE	DESCRIPTION
UF10030	UFH Manifold Isolating Valves (Pair)
UF10060	Repair Coupler - 12mm Pipe
UF10061	Repair Coupler - 16mm Pipe

CODE	DESCRIPTION
UF10031	12mm Eurocone
UF10032	16mm Eurocone

CODE	DESCRIPTION
UF10040	Pipe Bend Former - 12mm Pipe
UF10041	Pipe Bend Former - 16mm Pipe

CODE	DESCRIPTION
UF30022	Clip Rail with Adhesive - 1m

CODE	DESCRIPTION
UF10050	Pipe Staple Gun - With Inspection Slot

CODE	DESCRIPTION
UF30030	Edge Strip with Adhesive - 25m

CODE	DESCRIPTION
UF30020	Welded Staples - 60mm
UF30021	Taped Staples - 40mm

CODE	DESCRIPTION
UF30040	D 1 Primer - 10kg Tub

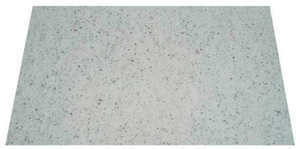
CODE	DESCRIPTION
UF30041	DX 9 Primer - 10kg Tub

CODE	DESCRIPTION
UF30042	ST 25 Smoothing Compound - 25kg Bag

CODE	DESCRIPTION
UF30043	KGX 45 Flexible Tile Adhesive - 25kg Bag

CODE	DESCRIPTION
UF30044	Polyurethanschaum Energy Foam Adhesive - 750ml Can

CODE	DESCRIPTION
UF30045	MS-K 509 Contact Adhesive - 16kg Tub



CODE	DESCRIPTION
UF30046	4mm x 1200mm x 600mm Decoupling Panel

WARRANTY

WARRANTY TERMS

At Instantor, we believe in providing our customers with the best quality products. That is why we guarantee our products against manufacturing defects, provided that they are installed by professionals and in accordance with our installation instructions or technical guides. Our guarantee terms and conditions require that our product is used as recommended by Instantor in normal domestic purposes and installation and maintenance instructions have been observed. Please see the warranty periods below for the various components within the Instantor Underfloor Heating range.

This guarantee does not cover damage caused by improper use, wilful or accidental damage, damage caused by negligence, improper installation, improper storage, abnormal usage (including usage in extreme temperatures), or damage caused by improper maintenance.

If you wish to make a claim under this guarantee, please contact Instantor as soon as you identify a manufacturing defect. Upon identifying a defect, do not use or install the product. Our customer service team is available to answer any questions you may have. You can contact us by phone at **+353 (0)1 842 6255** or via email at **sales@instantor.ie**

All claims must be received within the specified guarantee period, and you must include a copy of the invoice confirming the date of purchase.

If Instantor finds that a product has a manufacturing defect and a valid claim has been made, we will replace or repair the product at our discretion. Before agreeing to satisfy a claim Instantor reserves the right to inspect the product and the installation or view images of the product and installation prior to agreeing to satisfy a claim under the Instantor guarantee.

Pex-Al-Pex	50 Years
Pert-Evoh-Pert	50 Years
Manifold	5 Years
Mixing Kit	5 Years
Pump	5 Years
Whisper Controls	5 Years

Instantor®
Underfloor Heating

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