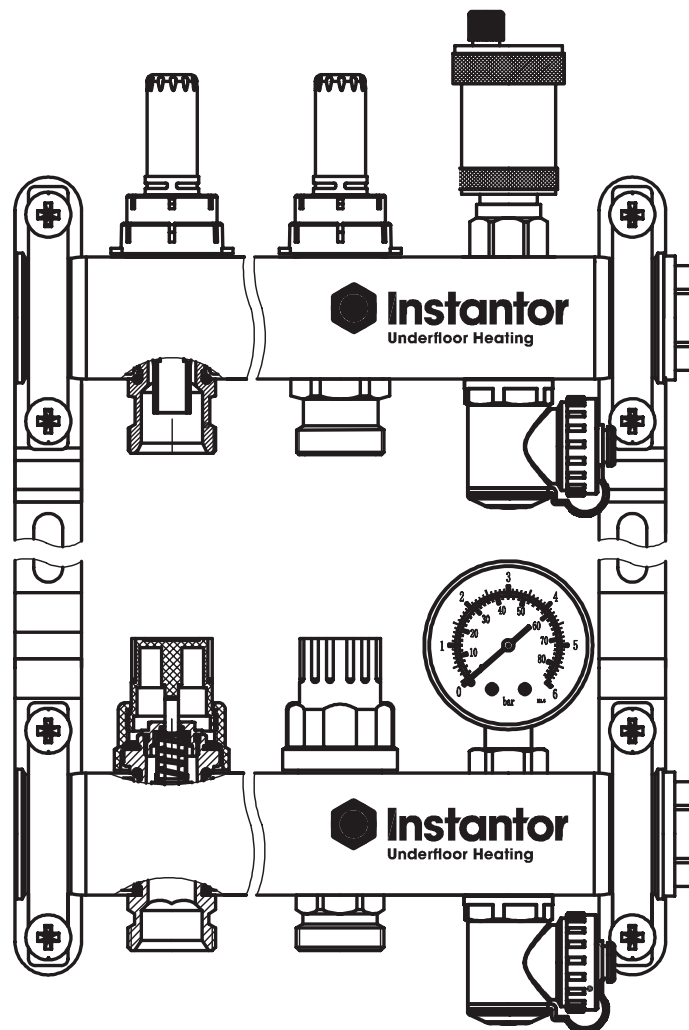




Instantor[®]

Underfloor Heating 

Instantor Underfloor Heating Manifold Technical Specifications





Instantor[®]

Underfloor Heating

PRODUCT OVERVIEW

Manufactured from premium 304-grade stainless steel, Instantor underfloor heating manifolds are designed to deliver reliable, long-lasting performance in hydronic underfloor heating systems. The corrosion-resistant construction provides excellent durability and is suitable for a wide range of residential and commercial heating applications.

The manifold provides efficient distribution and control of multiple heating circuits and can be installed either in conjunction with the Instantor Thermostatic Mixing Valve and VEPO Pump, or connected directly to a centrally controlled heat source where water temperature and circulation are managed externally.

Each manifold is precision manufactured and subjected to rigorous quality control procedures throughout the production process. Following assembly, every unit is factory pressure tested to verify integrity and performance prior to dispatch.

To support efficient operation and simplified maintenance, the manifold is equipped with an automatic air vent on the flow rail, continuously removing trapped air from the system. A pressure gauge mounted on the return rail provides convenient monitoring of system pressure during commissioning and routine servicing. Temperature sensing indicators are factory-fitted to both the flow and return rails, allowing quick visual verification of operating temperatures and assisting with system diagnostics and performance monitoring. Integrated fill and drain valves are fitted to both rails, enabling straightforward filling, flushing and maintenance procedures.

The flow rail incorporates individual flow meters with a measuring range of 0–5 L/min, allowing installers to accurately monitor and balance each heating circuit during commissioning. This ensures the system operates in accordance with the underfloor heating design and delivers optimum performance.

The return rail is designed to provide reliable isolation and control of individual heating circuits, allowing each loop to be adjusted as required during commissioning and maintenance. The valve bodies are compatible with standard M30 x 1.5 thermal actuators, enabling individual room and circuit control when connected to suitable room thermostats and wiring controls. This allows the system to automatically regulate heat demand on a zone-by-zone basis, improving comfort, efficiency and overall system performance.

Supplied pre-assembled and ready for installation, the manifold combines precise hydraulic balancing, practical maintenance features and robust construction, making it an ideal solution for modern underfloor heating systems.

TECHNICAL SUMMARY

Construction

- 304-grade Stainless Steel
- EPDM Seals

Performance

- Flow Meter Range: 0-5 L/min
- Flow Meter Accuracy: ± 0.1 L/min
- Temperature Sensing Indicator Accuracy: $\pm 2^{\circ}\text{C}$

Connections

- 2-12 Ports
- 1" BSP Female
- 3/4" Eurocone
- M30 x 1.5mm Actuator thread

Ratings

- Working Temperature: -10°C to $+80^{\circ}\text{C}$
- Maximum Working Pressure: 10 bar
- Recommended Commissioning Pressure Test: 6 bar

KEY FEATURES

- Pre-assembled manifold for faster installation and reduced time on site
- Manufactured from premium 304-grade stainless steel for exceptional corrosion resistance and durability
- Individual flow meters (0–5 L/min) on each circuit for accurate balancing and commissioning
- Return valves compatible with standard M30 x 1.5 thermal actuators for individual room control
- Automatic air vent fitted as standard for continuous removal of trapped air
- Integrated pressure gauge for convenient system pressure monitoring
- Temperature sensing indicators fitted to both flow and return rails for continuous temperature monitoring
- Fill and drain valves fitted to both rails for simple filling, flushing and maintenance
- 3/4" Eurocone circuit connections compatible with most underfloor heating pipe systems
- Heavy-duty mounting brackets included for secure wall installation
- Compact, service-friendly design allowing easy access for adjustment, servicing and maintenance
- Suitable for use with Instantor Thermostatic Mixing Valve and VEPO Pump or direct connection to low-temperature heat sources



Instantor[®]

Underfloor Heating

APPLICATION & OPERATING CONDITIONS

The Instantor underfloor heating manifold is designed for use in closed-loop hydronic underfloor heating systems and is suitable for the distribution and balancing of multiple heating circuits.

The manifold is compatible with clean heating water and water/glycol mixtures containing up to 50% glycol. Manufactured from 304-grade stainless steel, it is designed to provide reliable operation in a wide range of residential and commercial heating applications.

Suitable for:

- Underfloor Heating
- Low Temperature Heating Systems
- Heat Pump systems
- Gas/Oil Boilers
- Residential
- Commercial

Complies with:

- BS EN / I.S. EN 1264
- BS EN / I.S. EN 12828
- ISO 10508
- BS EN / I.S. EN 1264-4

Operating Parameters

Working Temperature: -10°C to +80°C
Maximum Working Pressure: 10 bar
Operating Medium: Heating Water or Water-Glycol Mixture
Maximum Glycol Concentration: 50%
Circuit Connection: ¾" Eurocone
Actuator Connection: M30 x 1.5
Manifold Material: 304 Stainless Steel

Included Components

- Pre-built 304-grade stainless steel manifold
- Automatic Air Vent
- Pressure Gauge
- Temperature Sensing Indicators
- Flow Meters (0-5 L/min)
- Fill and Drain Valves
- Mounting Brackets

COMPATIBLE SYSTEM ACCESSORIES

Product Code	Descriptions	Typical Use
UF10020	UFH Thermostatic Mixing Valve (incl. Isolation Valves)	Required where flow temperature blending is required
UF10030	Manifold Isolation Valves (Pair) incl. Temperature Gauge	Required for direct connection to low-temperature heat sources. Optional with mixing valve
UF10031	12mm x 1.3mm Eurocone	For connection of 12mm UFH pipework
UF10032	16mm x 2.0mm Eurocone	For connection of 16mm UFH pipework
372002 BSP N	3/4" Manifold Blanking Cap	To blank unused manifold ports
TACT-0301	Whisper TS-35 Manual Open Thermal Actuator 230v 2 Wire	To enable zoned room temperature control

WARRANTY & COMPLIANCE

Warranty

The Instantor Underfloor Heating Manifold is backed by a 5-year manufacturer's warranty against manufacturing defects, providing assurance of quality, reliability and long-term performance.

The warranty is subject to the product being installed, commissioned, operated and maintained in accordance with Instantor guidelines. The warranty does not cover damage resulting from incorrect installation, misuse, neglect, accidental damage, improper storage, abnormal operating conditions or inadequate maintenance.

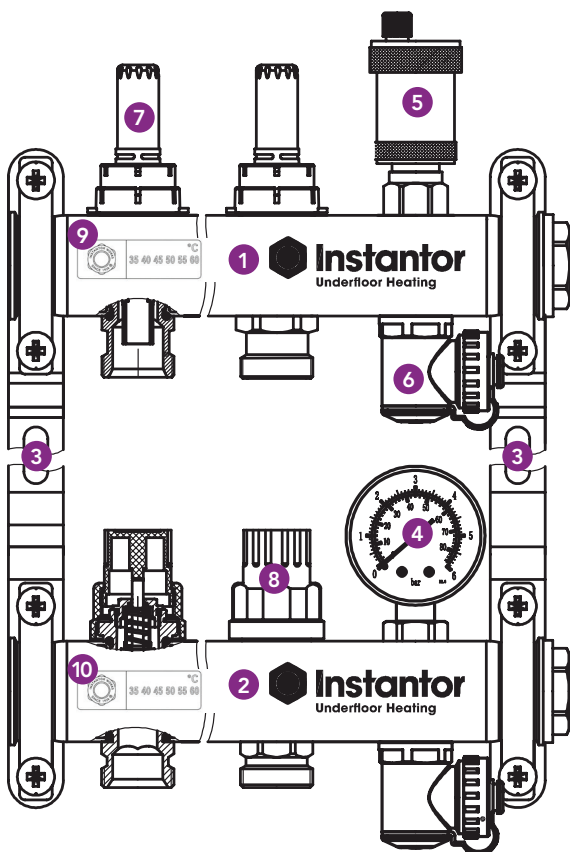
Compliance

The manifold is designed for use in hydronic underfloor heating systems and is manufactured to meet the performance and quality requirements expected for modern residential and commercial heating installations.

INSTANTOR UFH MANIFOLDS

Product Code	Description
UF10002	Instantor 2 Port Underfloor Heating Manifold
UF10003	Instantor 3 Port Underfloor Heating Manifold
UF10004	Instantor 4 Port Underfloor Heating Manifold
UF10005	Instantor 5 Port Underfloor Heating Manifold
UF10006	Instantor 6 Port Underfloor Heating Manifold
UF10007	Instantor 7 Port Underfloor Heating Manifold
UF10008	Instantor 8 Port Underfloor Heating Manifold
UF10009	Instantor 9 Port Underfloor Heating Manifold
UF10010	Instantor 10 Port Underfloor Heating Manifold
UF10011	Instantor 11 Port Underfloor Heating Manifold
UF10012	Instantor 12 Port Underfloor Heating Manifold

MANIFOLD COMPONENTS



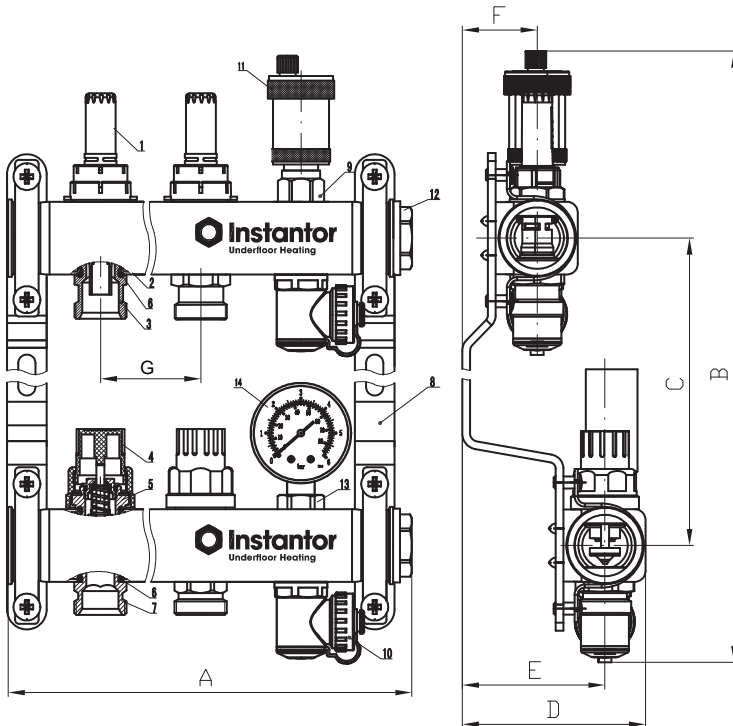
Component	Description
1	Flow Manifold
2	Return Manifold
3	Mounting Brackets
4	Pressure Gauge
5	Automatic Air Vent
6	Fill & Drain Valves
7	Flow Meters
8	Circuit isolation Valves
9	Flow Temperature Indicator
10	Return Temperature Indicator



Instantor[®]

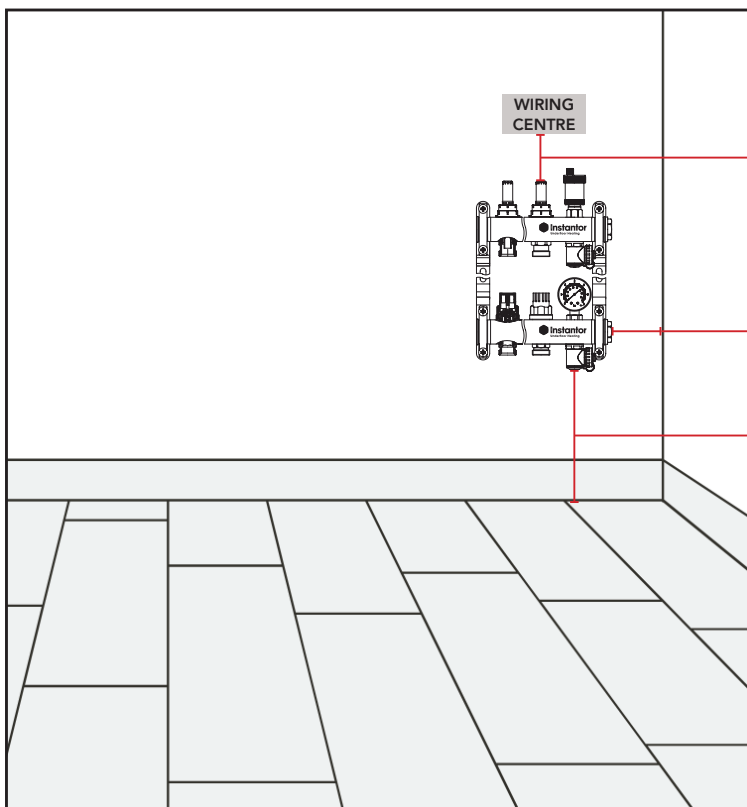
Underfloor Heating

MANIFOLD DIMENSIONS



No. of ports	A	B	C	D	E	F	G
2	201	362	210	191.5	71	37.5	50
3	251	362	210	191.5	71	37.5	50
4	301	362	210	191.5	71	37.5	50
5	351	362	210	191.5	71	37.5	50
6	401	362	210	191.5	71	37.5	50
7	451	362	210	191.5	71	37.5	50
8	501	362	210	191.5	71	37.5	50
9	551	362	210	191.5	71	37.5	50
10	601	362	210	191.5	71	37.5	50
11	651	362	210	191.5	71	37.5	50
12	701	362	210	191.5	71	37.5	50

CLEARANCES



Minimum clearance between manifold and wiring centre: **150mm**

Minimum clearance from wall: **50mm**

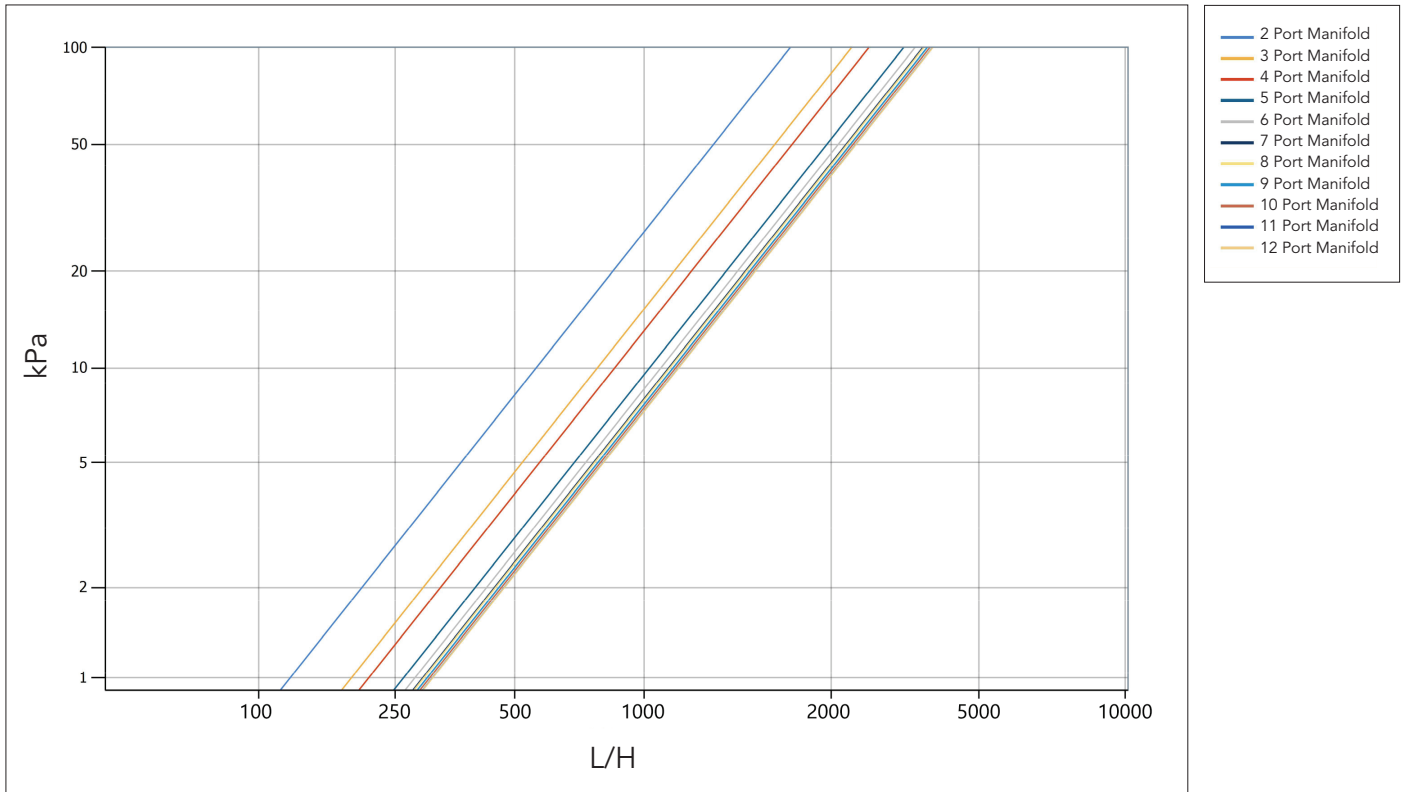
Recommended installation height: **400mm** above floor level.
Minimum installation height: **250mm** above floor level.



Instantor[®]

Underfloor Heating

PRESSURE LOSS CHART



Test Medium: 100% Water

Note: Pressure loss values represent the manifold only and exclude connected pipework and fittings. Values were obtained under controlled laboratory test conditions.





Instantor[®]

Instantor Ireland

Instantor Works
Santry Avenue
Dublin 9
D09K160
Sales: +353 (0)1 842 6255
Email: sales@instantor.ie
instantor.ie

Instantor UK

1 Dagger Road
Lisburn
BT28 2TJ
Sales: +44 (0) 121 737 2515
Email: sales@instantor.co.uk
instantor.co.uk