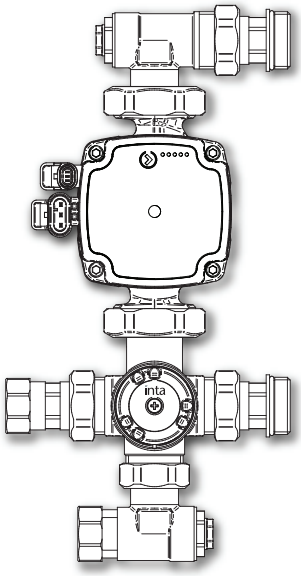
Underfloor Pump Mixer Set with UPM3 Pump

UFHPSET & UFHPSETNK

Installation and Maintenance Instructions



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In this procedure document we have endeavoured to make the information as accurate as possible.
We cannot accept any responsibility should it be found that in any respect the information is inaccurate or incomplete or becomes so as a result of further developments or otherwise.

Introduction

Inta's underfloor heating pump mixer sets are designed to blend flow and return from the heat source in underfloor heating systems which have a heating load of up to 15Kw.

The pump sets have been specifically designed for installation with manifolds and their lightweight design makes them ideal for wall mounting.

The heart of the control system is the blending which blends cooler water returning from the underfloor heating system with hot water from the heat source to provide mixed water at the correct temperature back to the underfloor pipework.

The blending valve is adjustable to enable the user to set the required temperature output.

Featuring a fully ERP compliant, energy efficient pump as well as a port for an automatic air vent, the Inta pump set is the installers choice for fuel efficient, reliable underfloor heating installations.

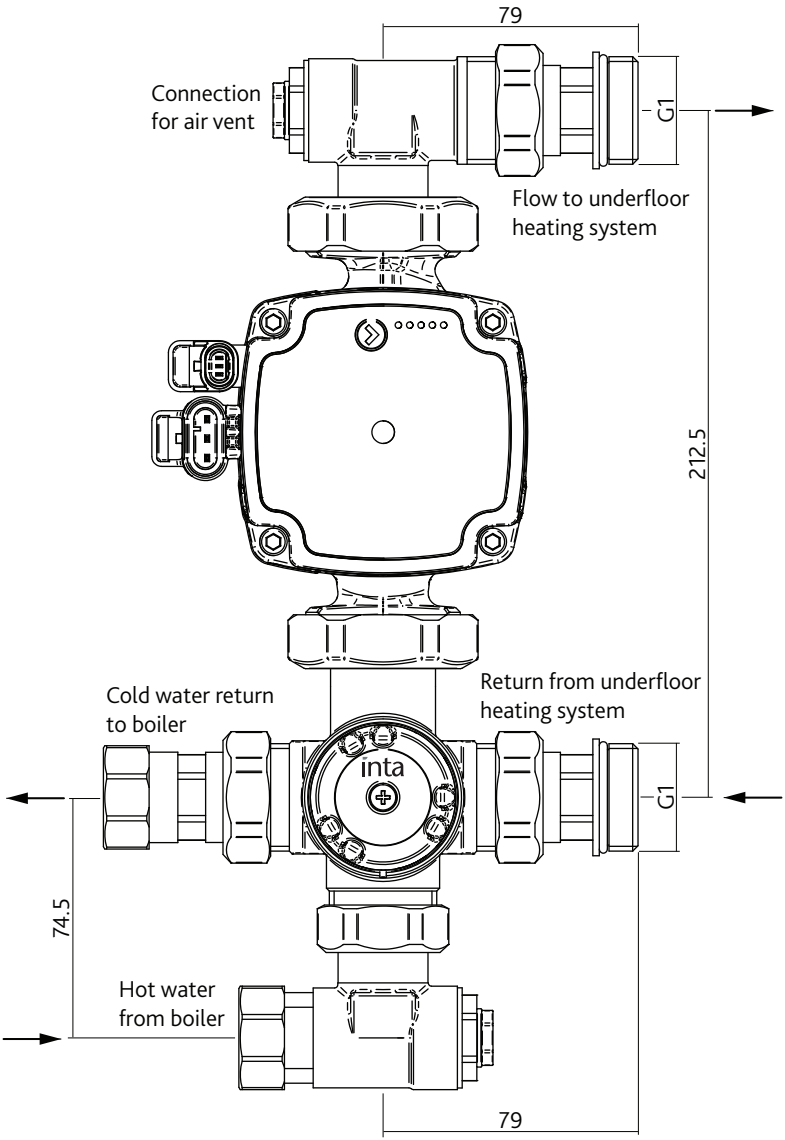
Products

Underfloor Pump Mixer Set with UPM3 Pump	UFHPSET
Underfloor Pump Mixer Set with UPM3 Pump - Nickel Plated	UFHPSETNK

Technical Specification

- ERP compliant , high efficiency pump
- Heating loads up to: 15 kW
- Temperature range: 30 to 60°C
- Temperature stability: ±2°C
- Maximum pressure: 10 bar
- Maximum inlet pressure ration: 2:1
- Maximum temperature: 90°C
- Kv value: 3.2 m^3/hr

Dimensions and Connections



Introduction

The underfloor heating pump set is supplied fully assembled for quick and easy connection to the flow and return manifolds and the flow and return pipes from the heat source.

- It is recommended that suitable ball isolating valves are fitted between the manifolds and the pump set to allow for future maintenance.
- Insert the gaskets into the female threaded port of the isolating ball valves and create a watertight seal.
- Offer the complete control unit to the ports, locating the bottom flat faced connection (return) first, followed by the top connection (flow) to align with the manifold or isolating valve connections
- Push the control unit fully into the manifold (or isolation valve) and connect the swivel nuts to the female thread and tighten accordingly.

Commissioning

To help protect and prevent damage to the blending valve and other devices on the heating circuit it is recommended that the connecting pipework is thoroughly flushed to remove any debris before filling and venting the system.

Close the manifold isolating ball valves, with the system filled and pressurised, vent the control unit via the air vent located on the pump outlet elbow.

Open the isolating ball valves and other valves and open the air vent again.

With the primary pipework to the boiler, control unit and manifolds filled and at the required system operating pressure check for any signs of leakage on all joints.

Wiring

All electrical wiring should be undertaken by a qualified electrician and must conform to EEI regulations.

Notes:

The flow and return manifolds must be securely fixed to the wall.

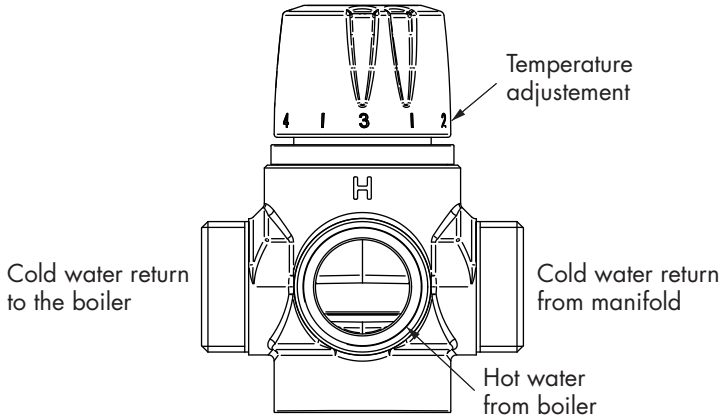
If the primary circuit serving the underfloor heating has not been fitted with an automatic bypass valve it is recommended that one is installed across the flow and return pipes upstream of the mixing valve to help protect the heat source and improve efficiency

Mixing Valve Adjustment

The thermostatic blending valve is factory set to provide a mixed water outlet of 45°C to the heating manifold. The mixed water outlet temperature can be adjusted to suit the design flow temperature within the range of 30 to 60°C.

With the heat source operating and the system balanced, the mixed water flow temperature can be easily adjusted by rotating the control knob of the blending valve as indicated, clockwise to reduce the temperature and anti-clockwise to increase.

To measure the mixed water temperature, use a suitable thermometer preferably digital to measure the surface temperature on the pump outlet elbow, and adjust as required.

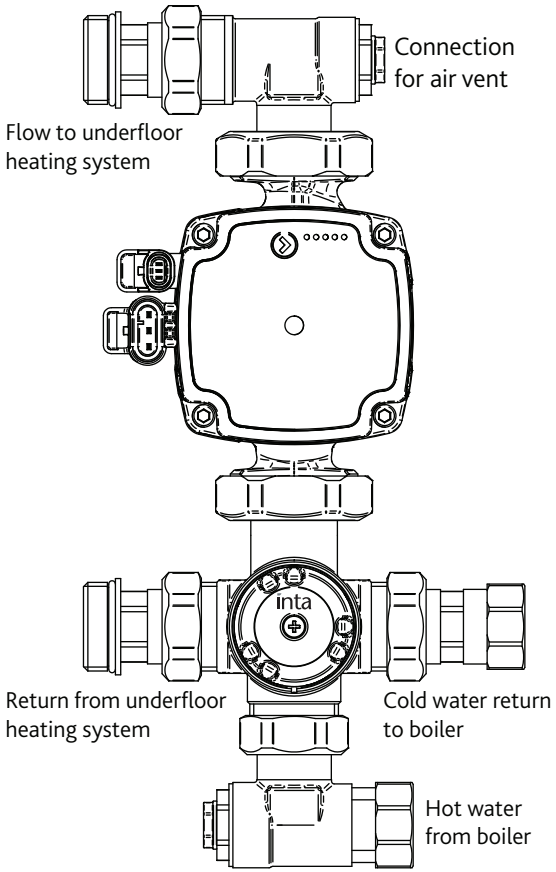


Right Hand Installation

The mixer set can be easily installed in a right hand configuration.

Using a suitably sized spanner slacken the 2 union nuts on the pump and rotate through 180° the blending valve and the pump outlet elbow as shown below.

Re-tighten the union nuts, check the joints for leakage and vent the unit using the air vent on the pump outlet elbow.



Notes:

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Please leave this Manual for the User

To activate your product warranty please visit

www.intatec.co.uk

and click on Product Registration

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