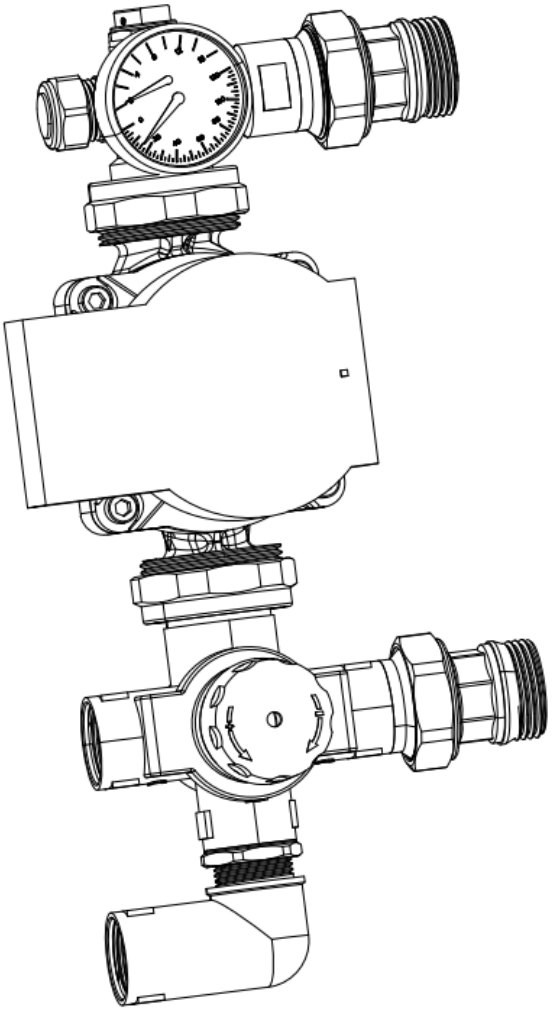
SSM3002 Pump Mixer Set



Installat ctions

Technical Specifications & Dimensions:

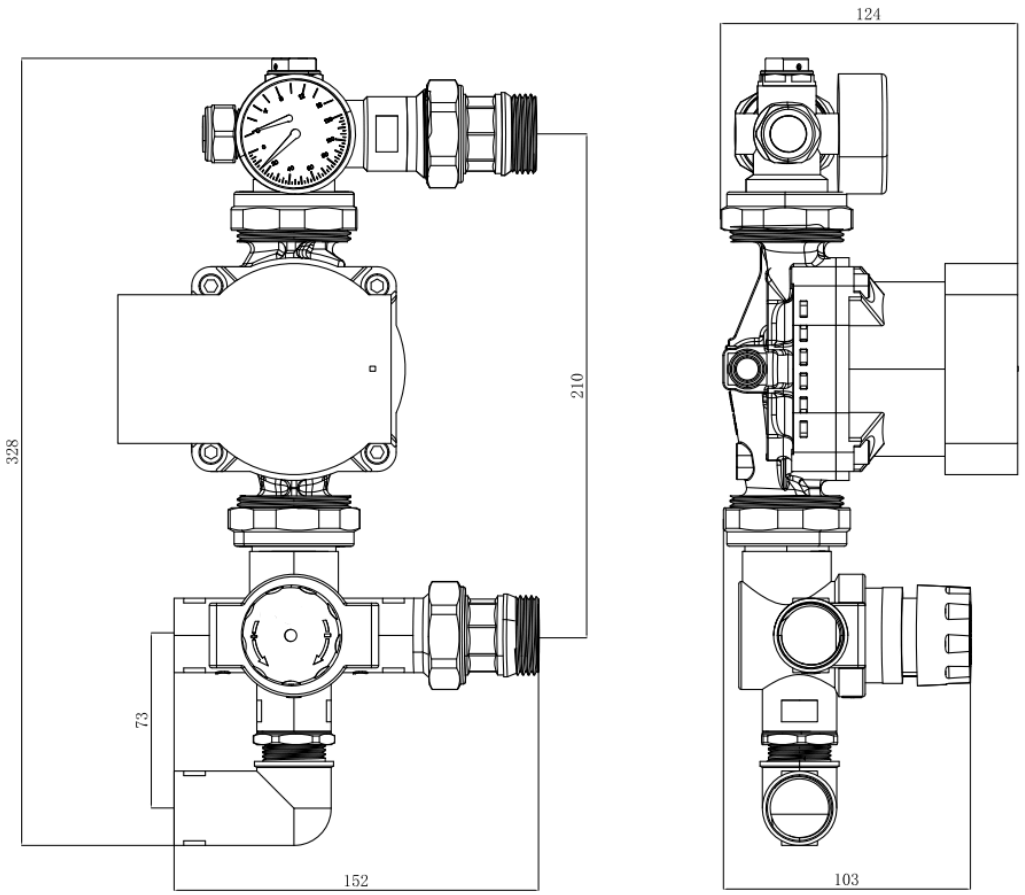
Maximum static pressure: 10 bar

Maximum temperature: 85°C

Adjustable control range: 35°C to 60°C

Factory pre-set: 45°C (Control knob is in the adjustable position)

Dimensions:



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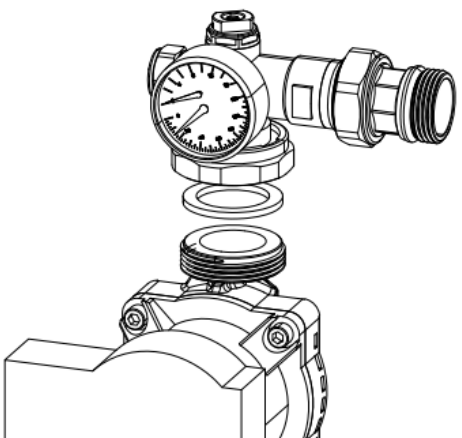
PLEASE CHECK CONTENTS OF PACK BEFORE BEGINNING INSTALLATION.

Water supply system components (1½"F*1 M)

Flat gasket (45*33*3)



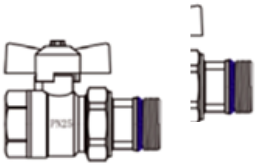
Pump (separate item)

Flat gasket (45*33*3)

Mixed water system components (1½”F x 1”M） x 3/4"F)

Connection elbow (3/4"F*3/4M)

Red & blue isolation valves 3/4"



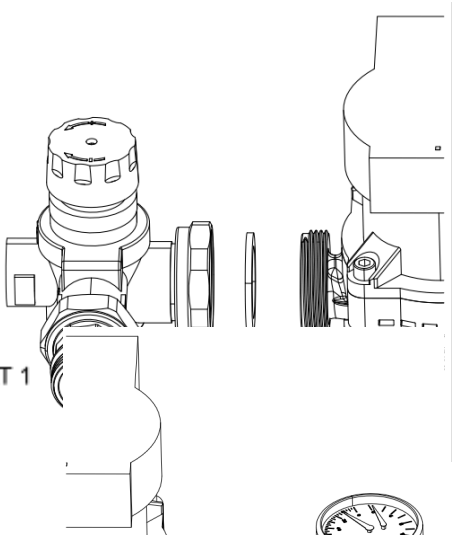
Introduction:

Designed to work with manifolds of all types, on 210mm centers. The thermostatic blending valve is a bolt on unit providing a quick and simple system to install.
The thermostatic blending valve is the core of the control system. It is used with flow and return manifolds to control the flow temperature of water to the underfloor heating pipework. It mixes the hot water from the boiler and supplies the water back to the UFH pipe at the correct temperature. The mixing valve operates at a lower temperature than the radiator system, between 35°C and 60°C depending on the floor construction. The water supply temperature can be adjusted according to the structure of the floor.

Installation:

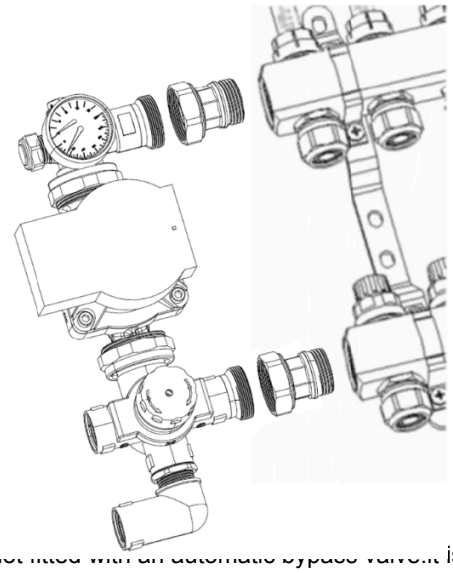
Firstly firmly fix the distribution manifolds to the wall leaving enough room beside the manifold to fit the control pack (see dimensions on Page 1). Before beginning the installation of the Thermomix Underfloor Heating Control Pack, identify all of the components in the pack.

1.1 Install the flat gasket into the connecting nut of the water-mixing system component, and then match the connecting nut with the external thread of the water pump and tighten it. Ensure that the mixing system components, flat gaskets and pumps are in a seal fit state (note the direction arrow on the pump body).



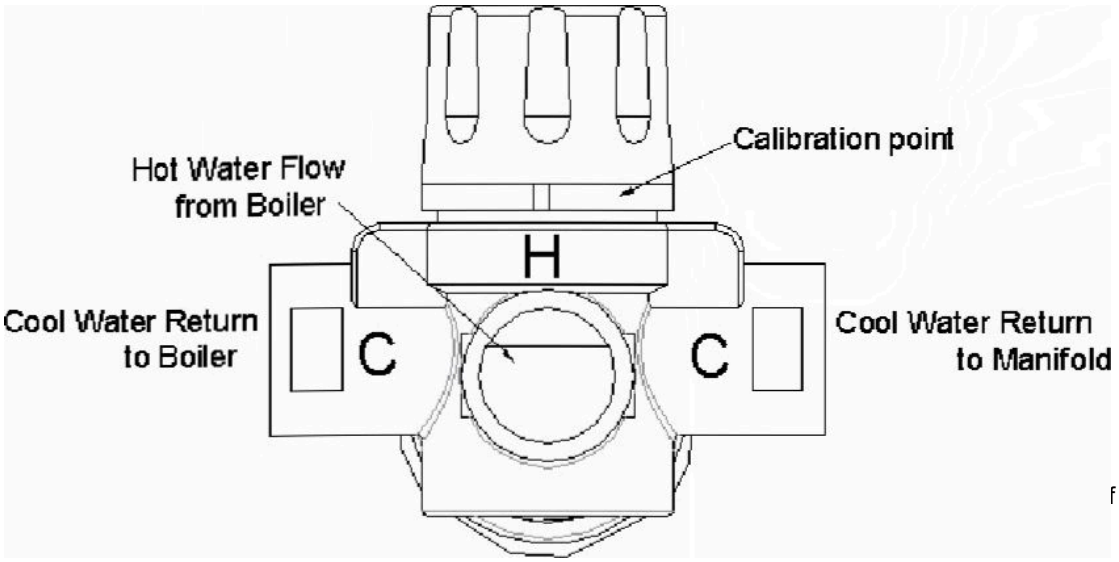
1.2 Install the gasket into the connecting nut of the water supply system component, and then match the connecting nut with the external thread of the water pump and tighten it. Ensure that water supply system components, gaskets and pumps are in sealed fit.

1.3 Swivel out the male unions of the mixing system and supply system, rotate its 1" male threads into the main bar or 1" female threads of other control unit, use the cone ring or other sealing winding belt of the tubes to tighten and seal, then re-rotate the free nut of the union into the mixing system and supply system correctly to avoiding leaking.



Note:

If the primary circuit serving the underfloor heating is not fitted with an automatic bypass valve,it is recommended that one is installed across the flow and return pipes to improve system efficiency.



Re-fit to the fitting so that the bottom part is now complete. On the top part of the mixer remove the gauge and swap it with the nut at the rear. Seal the threads on both parts. The top part is now complete.

Commissioning

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

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

Open the manifold isolating valves and other valves and vent via the air vent again.

With the primary pipework to the boiler, the control unit and manifolds both filled and at the correct system operating pressure it is important to check all joints for any leakage.

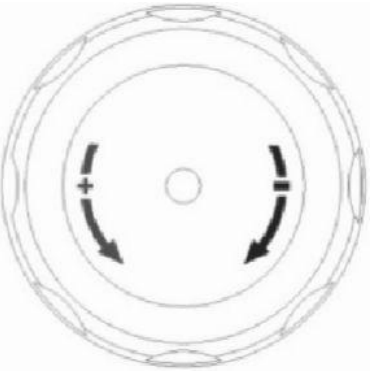
Adjust initial Settings to provide correct comfort. A maximum floor surface temperature of 29°C should not be exceeded (with the exception of wet areas such as bathrooms, 35°C) as this may lead to feelings of discomfort.

With timber floor finishes including strip laminate products the maximum floor temperature of 27°C should not be exceeded as this may result in excessive shrinkage of the material.

Maximum temperatures can vary so check the floor manufacturers recommendations first.

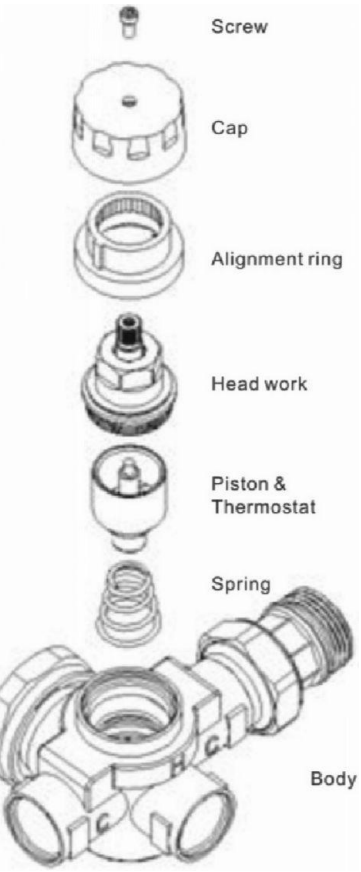
To adjust the temperature simply rotate the temperature control handle clockwise or anti-clockwise as indicated on the cap, until you reach the required setting.

To measure the mixed water temperature, use a suitable thermometer, preferably digital, to measure the surface temperature on the pump outlet elbow. Adjust the temperature as specified for the application and site conditions.

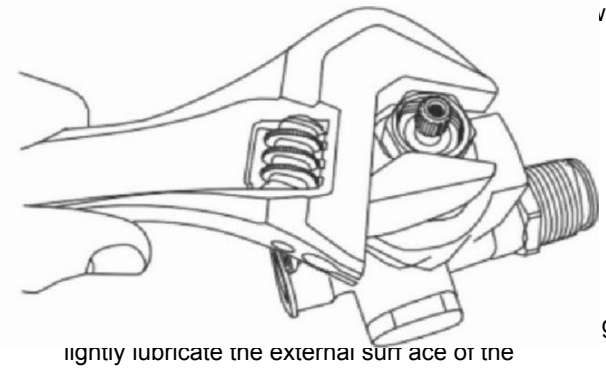


Maintenance

Isolate the flow and return to the blending valve and partially drain down the manifold using the drain/filling valves provided.
To clean or replace the internals of the blending valve, first remove the temperature control knob from the top of the valve. The temperature cam also needs to be removed by sliding it off the brass head work.



Remove the valve head work by



with an adjustable spanner.

lightly lubricate the external surface of the piston and thermostat assembly. After cleaning, reassemble the valve in the correct order and reset the mixing system temperature.