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## Installation and Maintenance Instructions



### Thermomix<sup>®</sup> Underfloor Heating Control Pack



The Manifold Control Pack provides temperature controlled mixed water to an underfloor heating system with a heat output up to 14kW.

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## Reliance Worldwide Corporation (UK) Ltd

Reliance Worldwide Corporation (UK) Ltd are part of the Australian based group of companies collectively known as Reliance Worldwide Corporation, with the UK brand known as Reliance Water Controls.

Reliance Worldwide Corporation (UK) Ltd is a specialist in the design, distribution and technical support for temperature and flow controls.

With group offices and manufacturing plants throughout the world RWC offers a wealth of knowledge and expertise which is reflected throughout our products. Being part of many specialised trade associations and having our own UKAS accredited laboratory, makes us at the forefront of any new regulations or changes which impact the industry, and allows for continuous product development and innovation, within our specialised product area.

Our core product range is related to thermostatic control, with the manufacturing undertaken at our head office in Brisbane Australia, we have an extensive range of thermostatic mixing valves, shower control valves, and taps all which use the same high quality technology to control the temperature of water, within this range we have different valves to suit various applications and working parameters, including both TMV2 and TMV3 approved controls.

RWC, are market leaders of OEM controls with a complete range of safety valves for use in G3 unvented systems and a wide range of Underfloor heating controls (UFH) to allow for safe distribution of hot water, throughout a property. This range includes; thermostatic control valves for safe hot water temperatures, manifolds to enable even distribution, complete UFH kits to allow ease of installation & commissioning, and a range of modern and stylish programmers to complement these controls.

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## Wiring

### 3.1.

A fused spur should be provided adjacent to the manifold to provide power to the pump and two port zone valve if fitted.

### 3.2

To comply with IEE regulations, the pump on the Manifold Control Pack must be provided with an earth. All wiring should be undertaken by a qualified installer and must conform to IEE regulations.

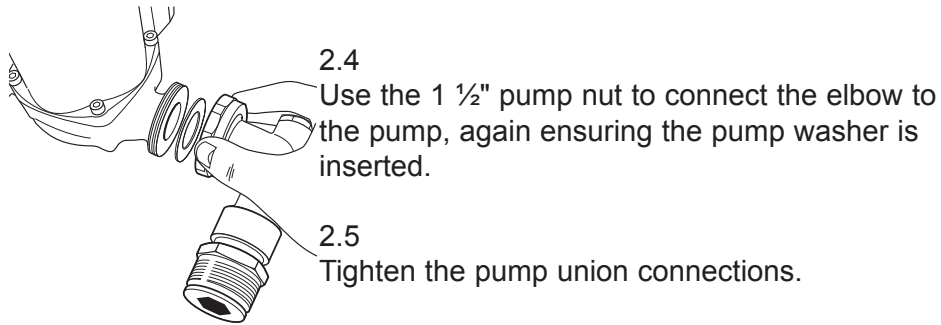
## Temperature Settings

### 4.1.

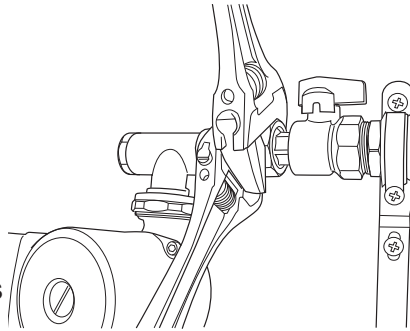
The mixing valve supplied as part of the Manifold Control Pack has a temperature setting range as detailed below.

Min (25°C)  
30°C  
35°C  
40°C  
45°C  
50°C  
55°C  
Max (60°C)

The temperature control is factory set in the adjustable position and at the 45°C.

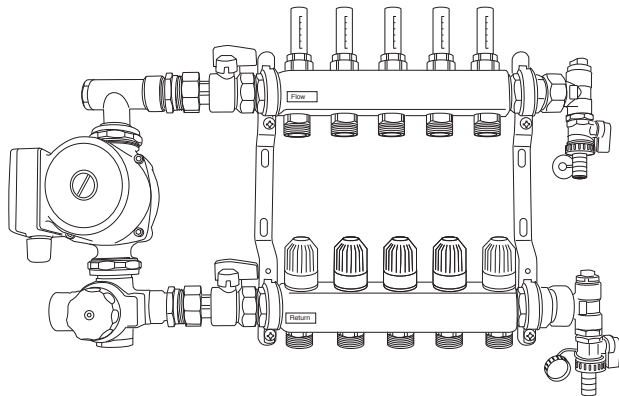


2.6 Connect the elbow to the flow manifold by means of the 1" MBSP connection onto the flat faced union connection, remembering to fit the 1" fibre washer.



2.7 Connect the Thermomix UFH control valve to the return manifold by means of the 1" MBSP connection onto the flat faced union connection again remembering to fit the 1" fibre washer.

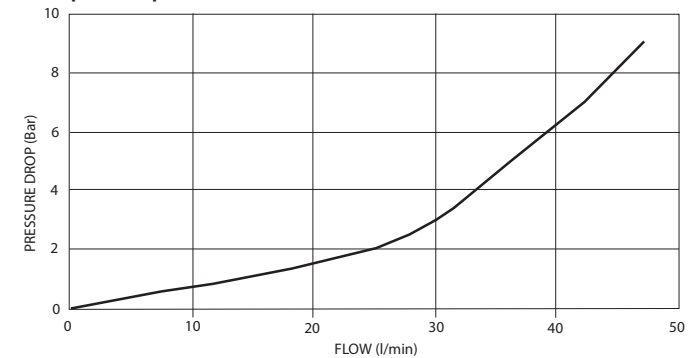
Thermomix UFH Valve complete with UFH manifold.



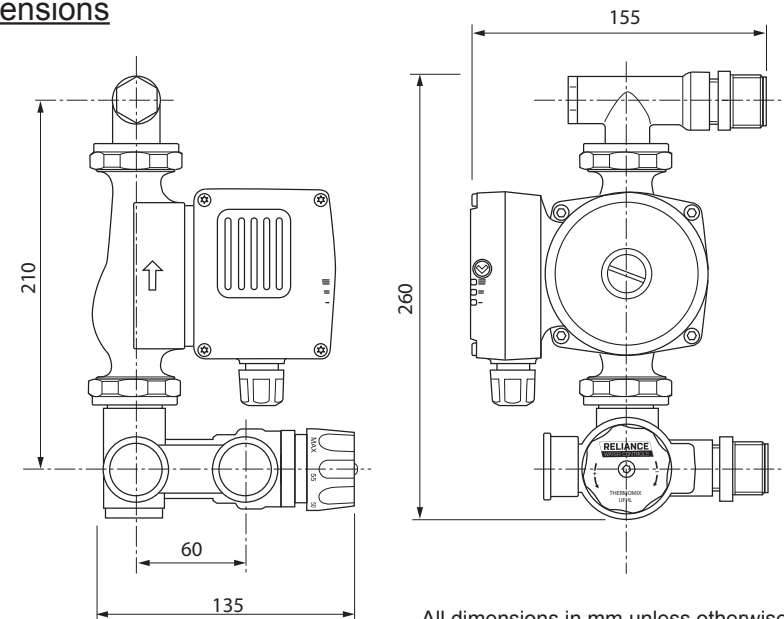
## Technical Specifications & Dimensions

Maximum static pressure: 10 bar  
 Maximum temperature: 90°C  
 Adjustable control range: 25°C to 60°C  
 Factory pre-set : 45°C (Control knob is in the adjustable position)

### Pressure Drop Graph



### Dimensions



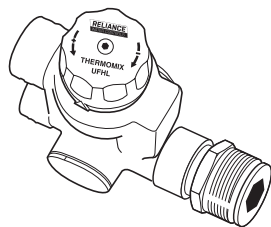
All dimensions in mm unless otherwise stated

## Pack Contents

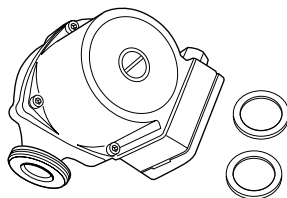
**PLEASE CHECK CONTENTS OF PACK BEFORE BEGINNING INSTALLATION.**

Description, Part Number and Quantity

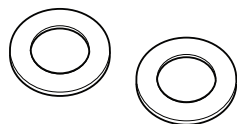
ThermoMix UFH Valve



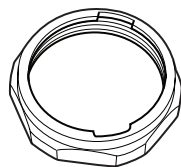
Pump including rubber washers



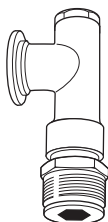
1" washers  
(Qty 2)



Pump nut



Connection elbow



## Introduction

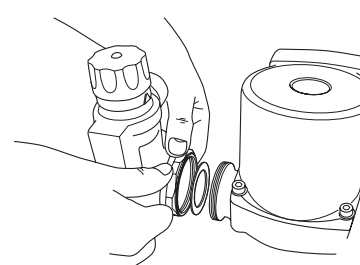
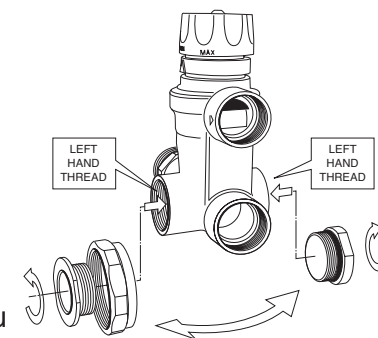
Designed to work with manifolds of all types, on 210mm centres. The Manifold Control Pack is a bolt on unit providing a quick and simple system to install.

## Installation

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

### 2.1

The Thermomix UFH valve comes complete with a blanking plug, this means if the standard orientation of the kit is not suitable for your application you can unscrew the blanking plug and pump union (left handed thread), and change them around, to reverse the kit.



### 2.2

Connect the Thermomix UFH valve to the pump using the pump nut which is pre-assembled to the thermomix, ensuring the pump washer is inserted. (taking note of the directional arrows on the pump body).

### 2.3

Slip the 1 1/2" pump nut over the flange on the flow connection elbow.

