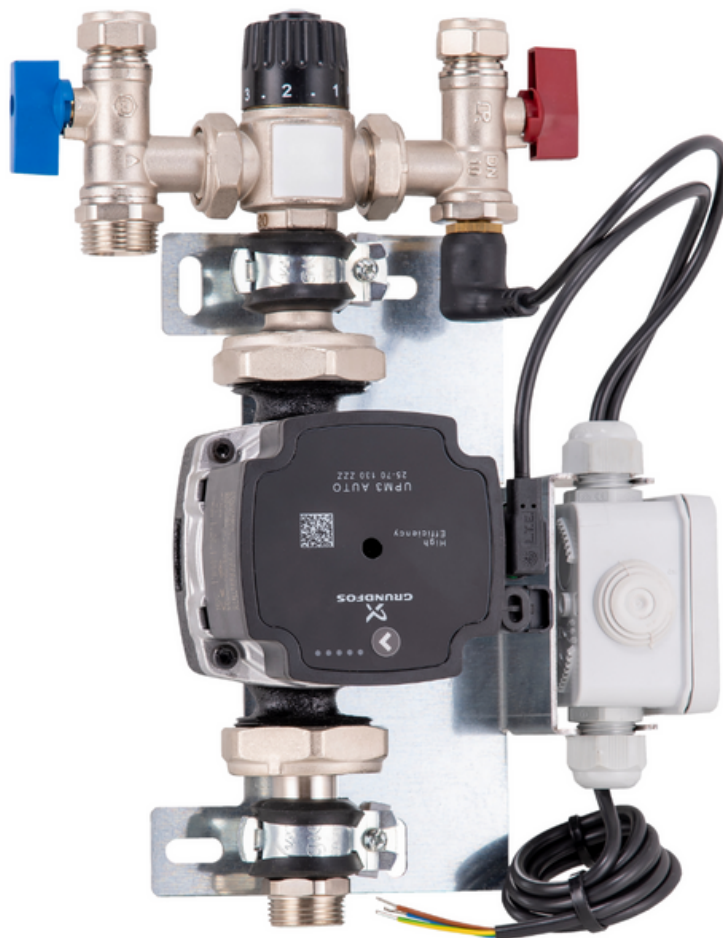


MULTIPIPE

Single Zone 7.5kw Pump Set Instructions

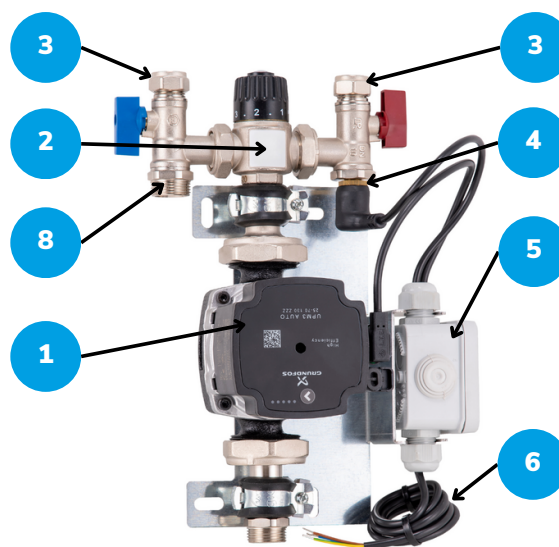
Part Code: 40-04157



TECHNICAL DATA	
Valve kV	2.3
Suggested Max. kW System Rating	7.5kW (2 loop max)
Working Temperature Range	5-90 °C
Max. Working Pressure	10 Bar
Connections Primary Side	15mm copper compression
Connections Secondary Side	3/4 Male (ISO 228-1) Eurocone
Pump	Grundfos UPM3 AUTO 25-70 130
Temperature Adjustment Range	30-60 °C
Accuracy	±2 °C
Low Limit Sensor	Fixed 42°C
Suitable Fluids	Water, Glycol Solutions (max 30%)

ZONE PACK COMPONENTS

1. Pre-assembled Grundfos UPM3 Auto 25/7 Pump (do not change/remove parts)
2. 30-60°C TMV <
3. Primary system connection (15mm copper compression) Red: Flow Blue: Return
4. Low-limit thermostat (preset to 42°C)
5. Pre-wired control box (inc. pump lead)
6. Thermostat cable
7. Galvanised steel Back mounting plate
8. UFH system connections 3/4" Male Eurocones

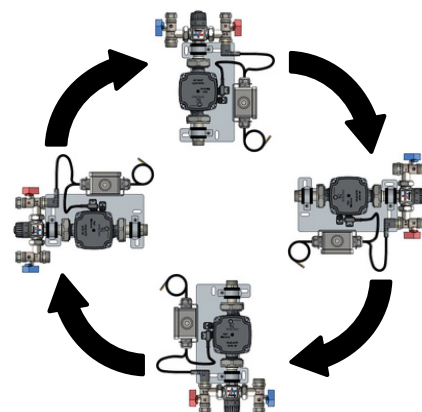


SYSTEM ORIENTATION

It is recommended to install the zone pack in the vertical position as shown.

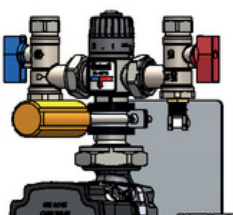
The set can be orientated in any of these positions providing the pump face is visible.

If locating upside down, provision for air venting will be required.

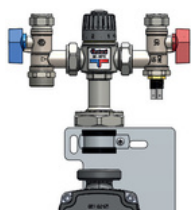


REVERSIBILITY

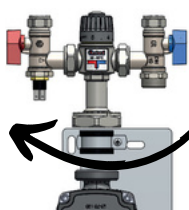
If required, your Multipipe single zone kit can be rotated to allow primary feeds to enter the opposite way around. To rotate, follow the steps below.



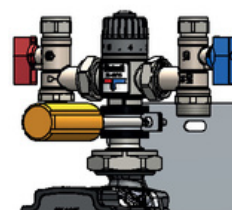
Undo the top rubber-lined bracket



Slacken the pump top nut



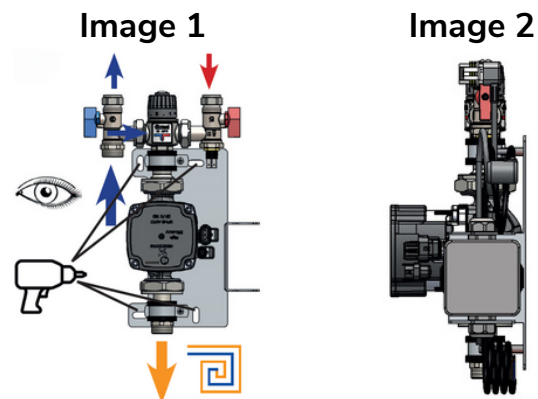
Rotate the whole assembly



Retighten pump nut and rubber-lined bracket

SYSTEM FIXING

Use appropriate fixings for the wall type. Minimum 2 positions required (Image 1). The wiring box is designed to slot onto the side bracket as shown in Image 2. This can be removed and attached to the wall if required.



USE OF THE Y SPITTER

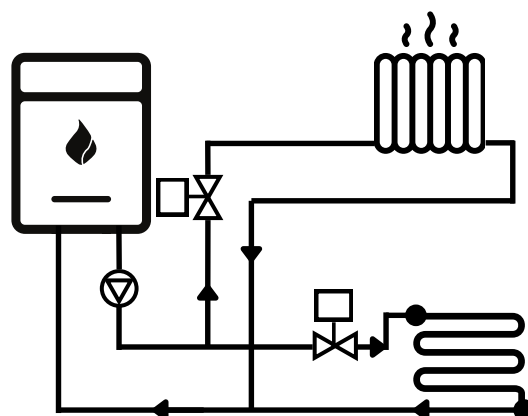
If your system has two underfloor heating loops, you will require two Y splitters. It is essential to use the two splitters dividing the two loops equally to maintain the system Delta T.

When laying two loops, keep them as near as possible to the same length (<5M difference). Failure to do so will result in different Delta T and a poor performing underfloor heating system.



PLUMBING YOUR SYSTEM

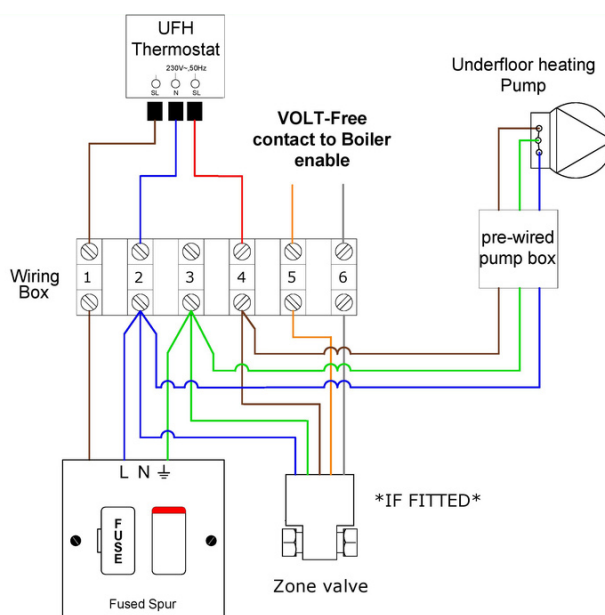
This pump set is designed to be used as an extension to your standard heating system. However, if you remove a radiator to add a pumpset, please remember that the system will only operate when your radiator heating system is on. We would always recommend that UFH systems be served separately to radiators (via a thermostat and two-port zone valve). This allows the two systems to heat when they need it.



LOW-LIMIT SENSOR AND WIRING

All Multipipe single-zone sets come pre-wired with a low-limit sensor. This will only start the pump once the primary side temperature has reached over 42°C. This is to ensure the valve has opened before starting the pump to ensure the UFH pump does not push against a shut valve, extending the system life. If the low-limit sensor is disconnected, this invalidates the unit's warranty.

Please follow the wiring diagram below ensure you do not alter wiring within the pre-wired control box.



COMMISSIONING AND SETTING WATER TEMPERATURE

Fill the system using the boiler fill loop. We recommend an air vent is fitted on the system to push the air out of the system whilst filling.

NOTE: Do not operate the pump whilst filling, as this can dry run the pump and damage it.

Initial heating of the system should be done in steps to ensure no damage to the screed or coverings. You need to set your mixing valve (see Table 1) to Min setting for a period of 3 days. After this, you need to raise the temperature one setting per day (roughly 3-4°C per day) to what is set out in Table 2. Failure to do so could damage your floor and/or coverings.

TABLE 1

DIAL SETTING	TEMPERATURE
Min	30°C
1	34°C
2	38°C
3	41°C
4	43°C
5	45°C
6	47°C
7	50°C
8	54°C
Max	60°C

FILLING AND PRESSURE TESTING

NOTE: If using a screed, the floor screed should be laid for at least 21 days before the underfloor heating system is heated. This could be longer depending on screed depth and type of screed and conditions. It is always recommended to check with the screed manufacturer if the floor is fully dry.

TABLE 2

SYSTEM TYPE	RECOMMENDED MAX. TEMP
Solid Screed	45°C
Altis Flow	40°C
Fortis Lite/ PRO/ Timber	45°C
HEP's	55°C

USE OF INHIBITORS AND ANTIBACTERIAL BIOCIDES

Multipipe MLC pipe and manifold can work with all major inhibitors and biocides, if in doubt check with our technical line (number on the back of this guide.) Antibacterial Biocides work by disinfecting the added water to the system, this can help reduce biofilm building up in the system, causing O-ring failures. This, however, may not be the best way to treat your system and a simple pre-treatment of the added water to the system can mean chemicals do not have to be used in the system.

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