# UFH Manifold Blending Valve Pump Pack 20–55°C with Grundfos UPM3 Flex

PWM-ready Grundfos pump, 20 to 55°C

**Code: MH-BV55-UPM3F**



## In the box

- Pre-assembled valve and pump unit
- Mixed flow temperature gauge, fitted
- Loose flow / return elbow

## You will need

- 37mm A/F and 31mm A/F spanners
- Spanners for 3/4" fittings
- Digital thermometer
- Pressure test pump

**Safety**

- Isolate the electrical supply before working on a pump, actuator or valve head. A qualified electrician makes the final connection, to BS 7671.
- Close the isolating valves or drain down, and release the pressure, before opening any joint.
- Pumps, valves and pipework can be hot. Let the system cool before you handle them.

## Installation

1. Unpack and check every part is there and undamaged. Decide which side of the manifold the pack will sit.
2. The pack is set up for the right-hand side of the manifold. For the left side, move the valve swivel nut across and turn the elbows 180° on the pump nuts, then retighten.
3. Fit the loose elbow on the flow or return so the primary pipes can come in from the side or from below.
4. Screw the 1" swivel joints evenly into the manifold's 1" female tappings with a 37mm spanner, holding the pack with a 31mm spanner. The O-rings seal, so do not overtighten.
5. Fix the manifold and pack firmly to the wall.
6. Connect the primary flow to H and the return to R (3/4" female). Fit ball valves on both so the pack can be isolated.
7. A qualified electrician connects the pump to the heating controls, to BS 7671.
8. Fill from the fill valve on the upper (flow) manifold bar, vent, then set the dial and the pump setting.

## Testing and commissioning

- ✓ Check every joint before filling, as nuts can loosen in transit. Pressure test with the manifold to BS EN 1264-4.
- ✓ Run the system and check the gauge against the dial setting with a digital thermometer.

## Care and maintenance

- Check the mixed flow temperature and system pressure yearly.
- Do not cover the pump control box with insulation. If the pump is in a cupboard or casing, keep the air around it below 70°C.