PUMPS & CONTROLS

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

PWM-ready Grundfos pump, 20 to 55°C.

A pre-assembled blending valve pump pack with a Grundfos UPM3 Flex 25-70 130, so the heat pump or boiler can set the pump speed by PWM. The wax-capsule valve holds a steady 20 to 55°C to the floor and the unit bolts onto a standard manifold.

CODE

MH-BV55-UPM3F

PRODUCT



01 · IN THE BOX

What you get

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

02 · YOU WILL NEED

Tools and materials

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

03 · SAFETY

Before you start

- 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.

04 · INSTALLATION

Fit it in 8 steps.

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.

05 · TESTING AND COMMISSIONING

Test, check, then hand over

- ☑ 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.

06 · CARE AND MAINTENANCE

Keep it working

- 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.

07 · BLENDING VALVE DIAL

SETTING	1	2	3	4	5	6
Mixed flow	20°C	27°C	34°C	41°C	48°C	55°C

Set the dial to suit the floor build and the system design.

08 · QUESTIONS

Asked by installers

Can I use it with a heat pump?

Yes. The 20 to 55°C range goes low enough for heat pumps and low-temperature floors, as well as boiler-fed systems.

Do I have to use PWM?

No. Without a PWM signal the pump runs on whichever setting you pick on the pump.

09 · WORKS WITH

Parts that fit with it



Auto-Balancing Stainless Steel UFH Manifold



3/4" Ball Valve Set for Blending Valve



Grundfos Replacement Pump Power Cable (UPM3)

ALSO WORKS WITH

Heat pump connection

SCAN ME

Watch how it works and fits

Point your phone camera at the code to watch the video.

QUESTIONS ON SITE?

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DELIVERY
Order by 12pm for next working day delivery