PUMPS & CONTROLS

ESBE Single Room UFH Mixing Pump Pack with Grundfos UPM3 Flex

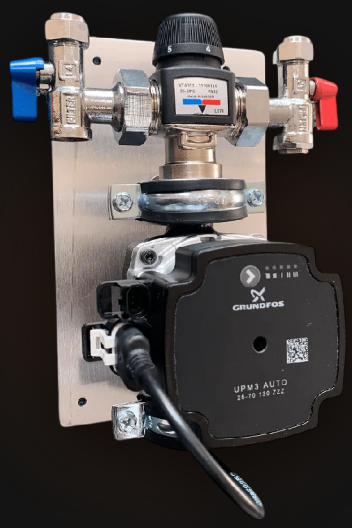
ESBE bypass valve, PWM-ready pump.

A single room mixing pump pack with an ESBE thermostatic valve and a Grundfos UPM3 Flex 25-70 130. It adds wet UFH to one room straight off a radiator or boiler circuit, and the boiler or heat pump can set the pump speed by PWM.

CODE

MH-SRE-UPM3F

PRODUCT



01 · IN THE BOX

What you get

- Pre-assembled pack on its back plate

02 · YOU WILL NEED

Tools and materials

- Drill, wall plugs and screws
- Spirit level
- Spanners
- Pipe cutter for 15mm copper
- Digital thermometer

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.
2. **The pack comes with the return on the left.** To reverse it, loosen the flange nut between the valve outlet and the pump, turn the upper section 180° without straining any wiring, and retighten.
3. Check there is room around the pack for the pipework and for servicing, then fix the back plate level to the wall.
4. Connect the primary flow and return from the radiator or boiler circuit to the 15mm compression isolating valves.
5. Connect the UFH loop flow and return to the pack.
6. A qualified electrician wires the pack to a 3A fused spur and the room thermostat through the terminal box, to BS 7671.
7. **Fill the UFH loop fully.** The valve bypass keeps the return partly open, so make sure water is not just bypassing the loop. Vent the pump.
8. Set the ESBE dial to the flow temperature you need, and choose the pump setting.

05 · TESTING AND COMMISSIONING

Test, check, then hand over

- [x] Pressure test the loop before screeding, to BS EN 1264-4.
- [x] Check every joint before filling, as joints can loosen in transit.
- [x] Check the mixed flow with a digital thermometer against the dial setting.

06 · CARE AND MAINTENANCE

Keep it working

- Do not turn thread-sealed joints after fitting; it breaks the seal.
- 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 · ESBE VALVE DIAL

SETTING	1	2	3	4	5	6
Mixed flow	35°C	40°C	45°C	50°C	55°C	60°C

08 · QUESTIONS

Asked by installers

Do I need a manifold?

No. The pack runs a single UFH circuit straight from an existing radiator or boiler circuit.

What's different about the ESBE version?

It uses an ESBE thermostatic valve with a built-in bypass and comes on its own wall back plate. Our standard single room packs use a thermostatic valve without the ESBE bypass.

09 · WORKS WITH

Parts that fit with it



PERT-AL-PERT Multilayer UFH Pipe



Pressure / Temperature Gauge for UFH Mixing Unit



Grundfos Replacement Pump Power Cable (UPM3)

ALSO WORKS WITH

Heatmiser DS1 Thermostat

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