

Manifold Control Pack

DATASHEET



VPS UNDERFLOOR HEATING

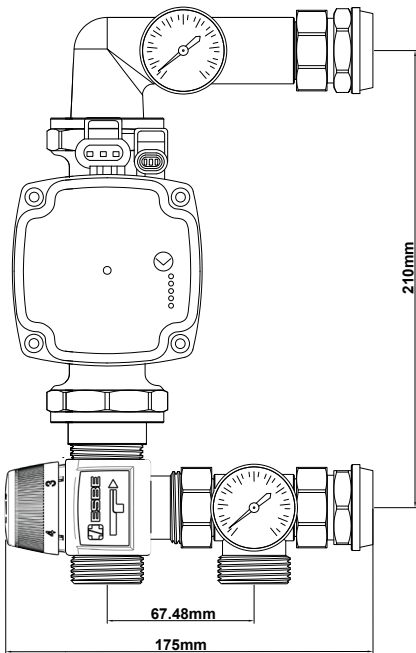
Customer Reviews 4.9 ★★★★★

Our VPS manifold pump & mixing valve unit (Manifold Control Pack) provides controlled mixed temperature water to underfloor heating systems. The pre-assembled unit combines the Grundfos UPM3 Auto Pump and ESBE VTA 372 mixing valve, allowing easy installation for wet underfloor heating systems.

The blending valve mixes the flow and return water of the system and can be set between 20°C - 55°C. The pump efficiently circulates the water, while dedicated gauges display the temperatures of both the flow and return. The Manifold Control Pack is a well-suited and practical choice for wet floor heating systems.

Key Features

- ✓ Control flow temperatures with a stability of +/-3°C adjustable from 20°C to 55°C
- ✓ 'A' rated Grundfos UPM3 Pump
- ✓ Equipped with temperature gauges to monitor both flow and return temperatures.
- ✓ Scald-safe functionality that protects underfloor heating pipes and the flooring
- ✓ Fully reversible to fit either end of the manifold
- ✓ 2 Year Warranty



Pre Assembled

- ESBE VTA 372 Mixing Valve,
- Grundfos UPM3 Auto Pump,
- Return Elbow + T Junction,
- Flow & Return Temperature Gauges,
- All Necessary Seals.

Technical Data

Operating Temperature	20 °C - 55 °C
Max Input Temperature	Continuously 95 °C
	Temporarily 100 °C
KVS	3.4Kv
Pressure Class	PN10
Max System Pressure	10 bar
Maximum head	7m
Power Supply	230 V 50 Hz
Conn. to manifold	1" BSP Female
Conn. to heat source	1" BSP Male

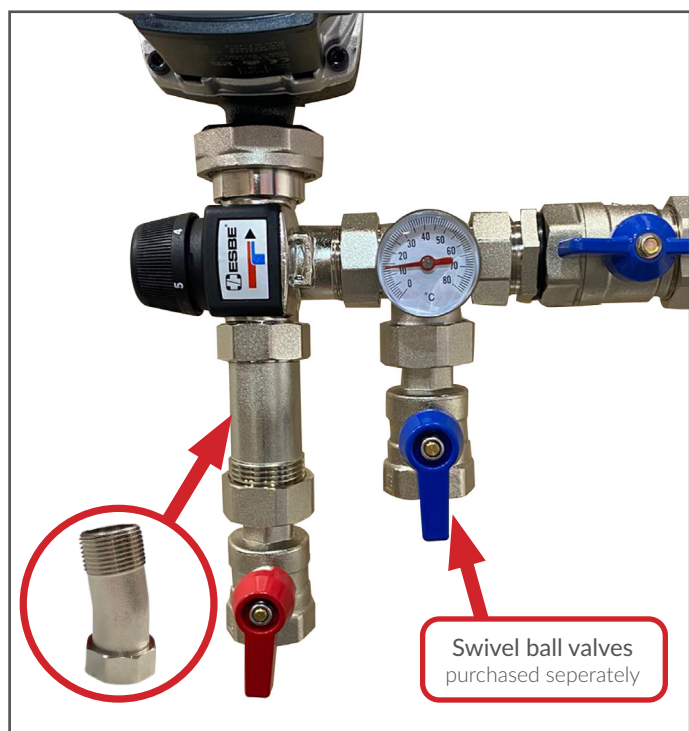


Installation

- The control pack is held in place by 1 inch connection to the manifold. This unit can be fitted directly into the manifold or ball valves.
- Temperature gauges are slotted into the relevant holes to display flow and return temperatures.
- The unit is fully reversible so can sit on the left or right hand side of the manifold.
- All connections should be fully tightened to ensure there are no leaks in the unit.

Connection to heat source

- Flow and return from the boiler are connected to the bottom of the unit using an **inch female adaptor**, 22mm or 28mm.
- Swivel ball valves can also be used to connect to the bottom fittings. This allows a shut off valve before the unit.
- The control pack naturally sits at an angle when installed onto a VPS Manifold. To accommodate this, an angled tail piece is included, while not essential for operation, it allows the flow pipe to be returned to a vertical position, improving alignment.
- The return connection can rotate, making alignment easier.



Blending Valve

The blending valve is controlled by a twist knob on the side of the control pack. This can be twisted by hand to adjust the flow between 20°C - 55°C.



Pump Set Up

The pumps electrical contact should be connected to a 230V 50Hz socket by a qualified electrician. The electrical contact should be equipped with a slow-blow fuse up to 10A.

All Grundfos UPM3 25-70 130 pumps will be set by default to 'Proportional Pressure - Curve Three' from factory. For underfloor heating circuits, **constant pressure curve** is recommended. The installer may choose from three performance settings which determines the correct performance requirement for the system.

Recommended Setting - Constant Pressure

● ● ● ● ●	CONSTANT PRESSURE 1	
● ● ● ● ●	CONSTANT PRESSURE 2	
● ● ● ● ●	CONSTANT PRESSURE-3 MAX	

1. To show the current setting, press once on the button
2. To view the settings menu, press the button for more than 2 seconds
3. Pressing the button will now shift the pump between the different settings.
4. When the setting changes are complete, the pump returns to operating mode after 10 seconds

Troubleshooting



An axle or impeller is stuck. To release the axle/impeller, press on the screw in front of the pump and turn it using a screw driver.



Supply voltage too low - Check the supply voltage



Supply voltage too low, severe malfunction - Check the supply voltage. Replace the pump.