

# BAUPACK-HT: PUMP CONTROL PACK

Manifold



## PRODUCT DESCRIPTION

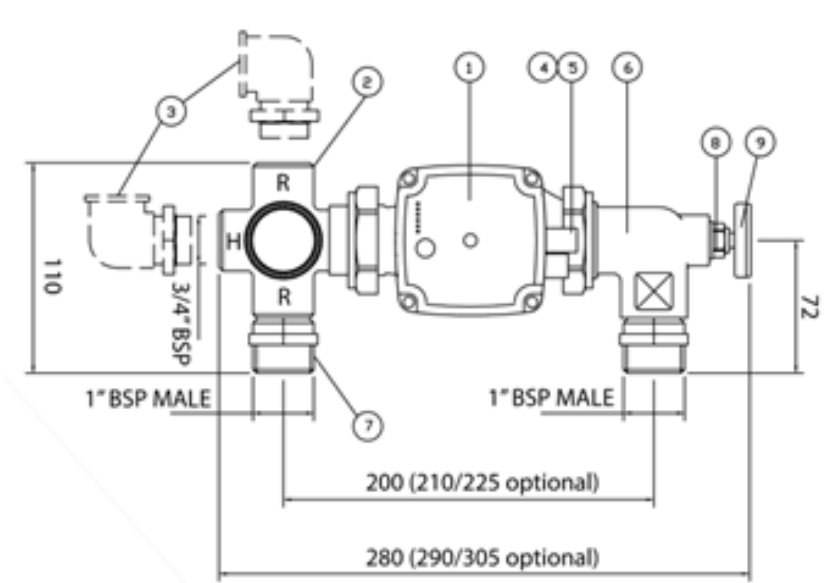
Provides control of flow and return water temperature in an underfloor heating system in line with building regulation when using a high temperature system. Pre-assembled and tested to ensure that it can be fitted with minimum on-site labour required and commissioned immediately once fitted.

Designed to connect to the left-hand side of a BAUSERV manifold as standard. The control group can also be altered to fit to the right-hand side of a manifold simply by switching the control group connections through 180°. The pump motor may need to be rotated through 180° to minimise the space occupied by the control group. Primary connections can be applied from the side or bottom of the control pack



## TECHNICAL DATA

| Ref. | Description                                | No. |
|------|--|-----|
| 1    | A Rated Auto Pump                          | 1   |
| 2    | Thermostatic Mixing Valve                  | 1   |
| 3    | Flow / Return Elbow                        | 1   |
| 4    | 2mm Rubber Washer                          | 2   |
| 5    | 1 1/2" Rapid Connection Nut                | 2   |
| 6    | Elbow Flanged c/w integrated check valve   | 1   |
| 7    | 3/4" Female BSP Flow and Return            | 2   |
| 8    | 3/8" Pocket                                | 1   |
| 9    | Temperature Gauge                          | 1   |
| R    | Return from manifold / flow to heat source | N/A |
| H    | Flow from heat source                      | N/A |



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| Property                       | Result                                   |
|--------------------------------|--|
| Maximum static pressure        | 10 Bar                                   |
| Maximum differential pressure  | 3 Bar                                    |
| Maximum temperature            | 95°C Continuously, 100°C Temporarily     |
| Mixing Valve temperature range | 20°C - 55°C                              |
| Inlet connections              | 2 x 3/4" BSPF                            |
| Outlet connections             | 2 x 1" BSPM swivel joint                 |
| Overall dimensions (mm)        | 290 h x 150 w x 140 h (Excluding item.3) |
| Material                       | Nickel plated brass                      |
| Mixing Valve Kvs rating        | 3.4 kvs                                  |
| Typical Max. Heating Capacity  | 18kW *subject to operating conditions    |
| Pump Operating Voltage         | 230V                                     |

## INSTALLATION

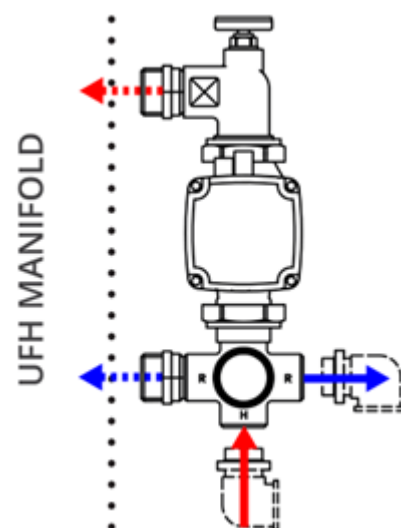
Prior to installation, manifold configuration must be determined as left or right-handed.

Left-handed: (graphic 1)

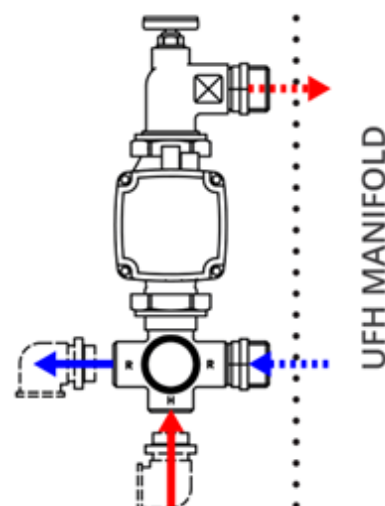
Right-handed: (graphic 2)

- Carefully remove from the packaging and check that all components are in place and that nothing has been damaged during delivery.
- The pump mixing pack is supplied for connection to the right-hand side of the manifold but can be altered very simply for connection to the left-hand side (see above).
- To change orientation: remove swivel nut (7) from the TMV and move to opposite connections. These joints use o-ring seals and should not be overtightened. Loosen the pump rotating nuts (5) on the elbow (6) and rotate through 180°. Retighten nut (5) after rotation.
- Pipe connection orientation can be altered to suit using flow / return elbow (3) (supplied loose) fitted in either flow or return.
- A swivel joint is fitted to each side of the control group for connecting to the 1" F manifold tapplings. Carefully offer up and screw the swivel joint threads evenly into the manifold using a 37mm A/F spanner: the use of a 31mm A/F spanner will also ensure that the connection to the pump mixer is kept tight. These joints use o-ring seals and care should be taken not to over-tighten them.
- Once connected, finish securing the manifold and pump pack to the wall if not already completed.
- The primary flow and return pipework can now be connected to the 2 x 3/4" F connections on the 4-way deflector plate. The flow connection is at the H and the return connection is at the R. It is recommended that ball valves are used to isolate this pipework where it is connected to the pump mixer.

Graphic 1



Graphic 2



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## COMMISSIONING

Filling the UFH system – The in-built non-return valve in the flow elbow allows you to fill the circuits from the upper flow rail drain and fill valve only.

Be aware that you cannot get the benefit of this feature when filling via the primary flow and return connections or the lower manifold rail drain and fill valve.

The pump pack, manifold and underfloor circuits can now be filled and commissioned in accordance with the manifold instructions. Prior to filling, a final check of all joints should be made to ensure no connections have loosened during transit.

The pump is supplied with a pre-connected 1m long 3-core lead assembly ready for connection to the electrical control system. Ensure that the pump is filled and vented, operate the control system to call for heat then select the desired pump setting.

The BauPack-HT control pack comes pre-assembled ready for installation. Please ensure the pump connections are tightened before commissioning. These connections are equipped with EPDM seals.

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