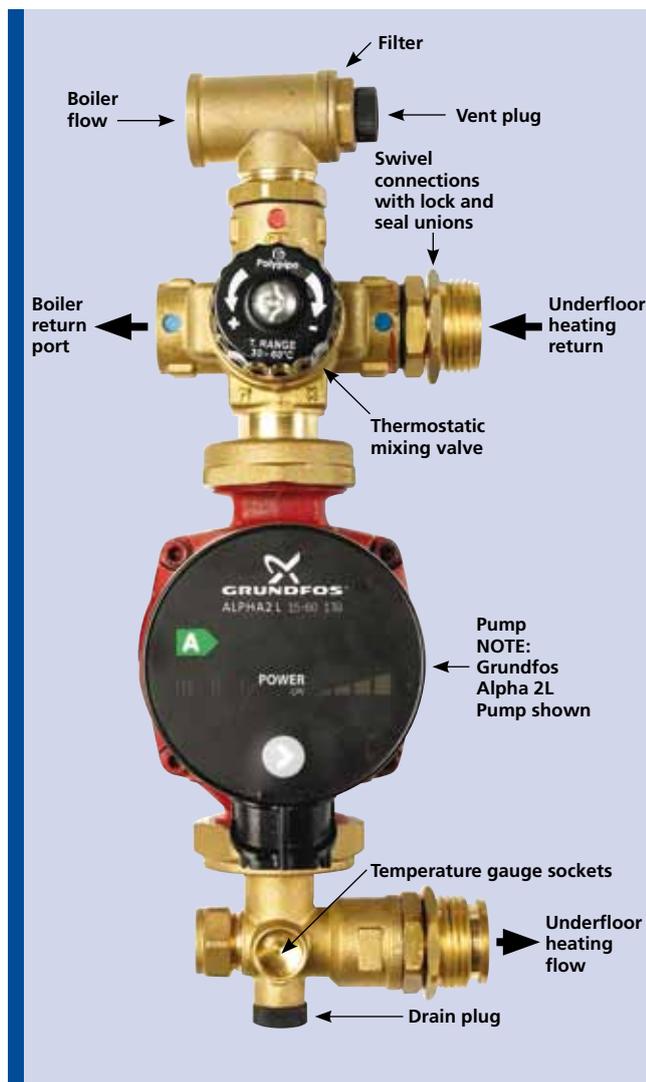


# ALPHA & COMPACT UFH CONTROL PACKS (PB970020 & PB970016) INSTALLATION INSTRUCTIONS

Suitable for up to 15KW heating load, the Compact and Alpha, provide thermostatic mixing control for Polypipe Underfloor Heating Systems. The units are designed for direct connection to the underfloor heating manifold.



Its versatile design and O-ring connection system provides for simple and quick conversion on site to Right Hand format if required.

Installing the control pack to the manifold is simple and quick, requires no additional supporting bracket and so eliminates the need for time consuming drilling and fixing.

## Assembly Instructions

### Step 1:

Screw filter elbow in to the boiler flow port of the mixing valve.



### Step 2:

Attach isolation valves (PB01732 supplied separately) using fibre washers to the under floor heating flow and return ports.



\*Alpha UFH Control Pack only (PB970020)

### Step 3:

Loosely attach one valve to the manifold using the fibre washers then swing the unit in to position and connect the remaining valve, again ensuring the washers are in position then tighten to seal.



### Step 4:

Attached the pump lead to the pump using the 'plug in' connector.



## Commissioning

To protect and prevent damage to the mixing control and other devices in the heating circuits, it is recommended that the pipe work connecting the boiler be flushed thoroughly of flux and debris before final connection. Full bore Isolating valves should be fitted to the primary pipework close to the mixing control for commissioning and maintenance.

With the manifold isolated but filled and pressurised open the primary circuit isolating valves connecting the mixing control to the boiler and purge the primary circuit and control until free of air. Integrate the primary and heating circuits by opening the manifold ball valves then vent again if necessary and finally stabilise to system design fill pressure.

### Mixing Control Adjustment

The thermostatic mixing control is factory set to provide 45°C mixed water to the heating manifold. The mixed water flow temperature can be adjusted and locked very simply to suit the design flow temperature within the range of 30-60°C.

With the boiler on and the heating circuits balanced the mixed flow temperature is easily adjusted by the unique set-and-lock clutch mechanism (fig.1):

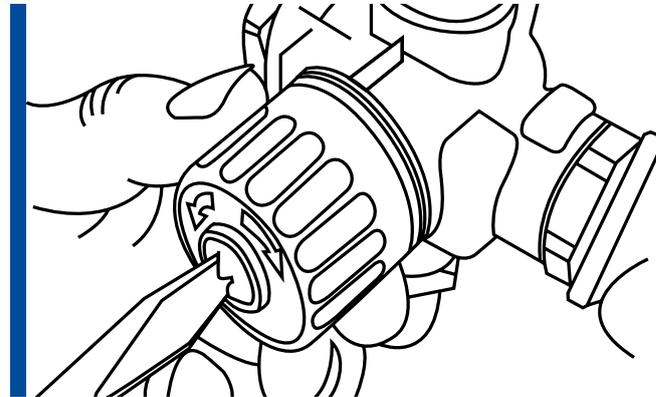


Fig 1

Min	=	30°C	5	=	45°C
1	=	34°C	6	=	47°C
2	=	38°C	7	=	50°C
3	=	41°C	8	=	54°C
4	=	43°C	Max	=	60°C

Table 1

### Step 1:

Unscrew the central screw approximately ½ turn anticlockwise to release the clutch locking mechanism.

### Step 2:

Turn the knob clockwise to decrease and anti-clockwise to increase temperature.

### Step 3:

The numbers on the control knob indicate the approximate mixed flow temperature when aligned with the indicator rib on the valve body. (Refer to Table 1)

### Step 4:

Select and dial to the number required as shown in Table 1 then wait briefly for the valve to stabilise by observing the temperature gauge (available separately) on the pump outlet elbow. If required, adjust the control knob accordingly until the desired flow temperature is reached and stable.

### Step 5:

Tighten the central screw approximately ½ turn clockwise until hand tight to engage clutch mechanism and lock the temperature setting.