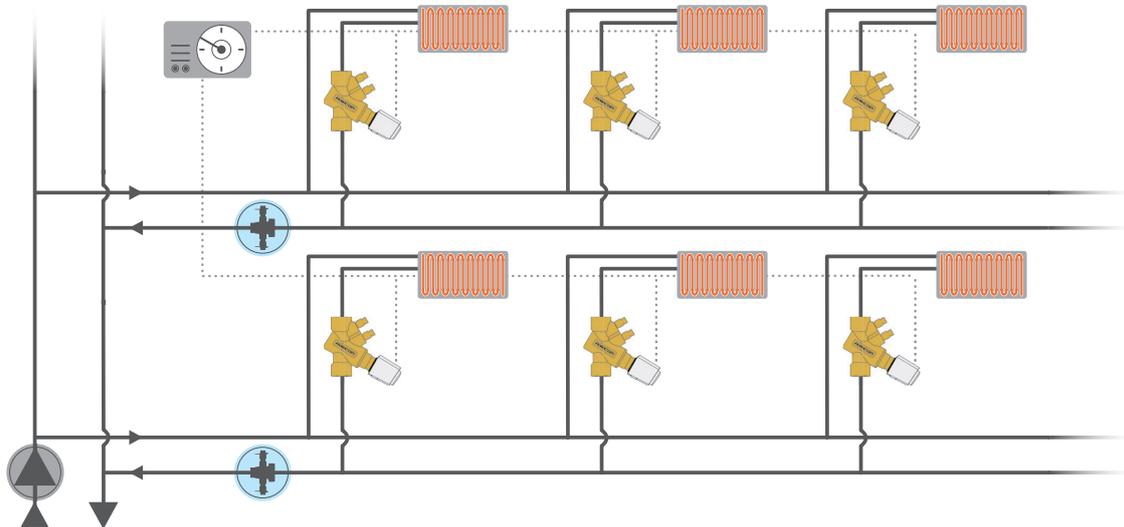


Trench Heaters/Coolers

with Temperature Control



System Functionality:

Trench heaters are underfloor-based heating devices and a less space consuming alternative to radiators. Hot water is piped to the unit and provides convective heating. As the warm air rises it will heat the room and the cooled air will fall back down and the cycle restarts. With proper balance and control, flow rates will be maintained despite pressure fluctuations with the result of appropriate room temperature and increased energy savings. This can be obtained by installing a Temperature Control Valve (TCV) on every trench heater, which will help secure no overflow and reduce energy consumption.

Requirements:

The TCV will react to system pressure changes and regulate the flow of hot water to required flow by adjusting the actuator position. This helps the unit to be accurately controlled even at reduced loads.

Solutions:

The solution is to mount a TCV on every single unit and FlowCon offers:

- FlowCon EVS with balancing (pre-set stainless steel insert) and ON/OFF control.

Benefits:

- Assures correct flow for each unit automatically - also at partial loads - securing occupant comfort.
- A serviceable solution due to insert-design
- Energy efficiency with regulation starting at only 10 kPaD
- Cost savings due to reduced commissioning time
- A proven technology - long life expectancy.

— FlowCon TCV —



EVS