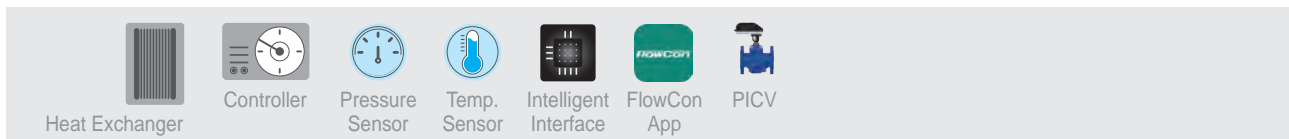
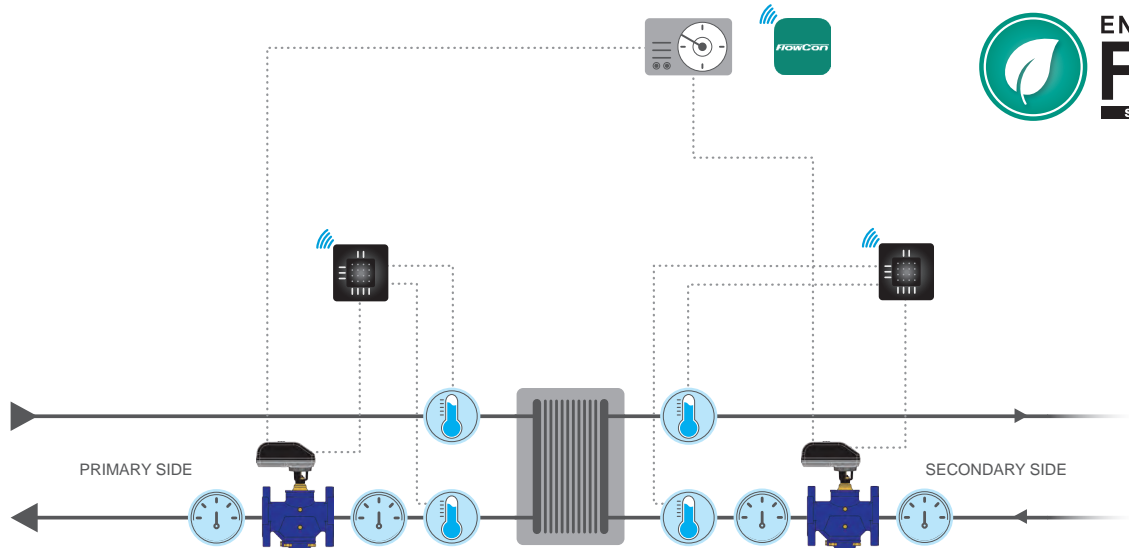


Heat Exchanger - Variable flow

with Pressure Independent Temperature Control



System Functionality:

A heat exchanger is a device that transfers heat from one fluid to another without mixing the two. The main function of a heat exchanger is to increase the energy efficiency of a heating or cooling system by transferring heat and thereby reducing energy costs. Proper balancing and full temperature control can assist in exactly this and by installing a true Pressure Independent Temperature Control Valve (PITCV) on each heat exchanger. The PITCV will, by controlling based on ΔT alone, help significantly increasing the heat exchanger efficiency and thereby reducing energy consumption and operating costs. This will increase the building's overall energy performance and anticipate in the task of energy certification.

Requirements:

A PITCV will only react to ΔT changes and consequently adjust the flow by altering actuator position. System pressure fluctuations are mechanically absorbed by the included PICV. By controlling Heat Exchanger performance on ΔT , flow requirements may be reduced, resulting in significant energy savings and still maintaining the proper room temperature at all times.

Solutions:

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

- FlowCon Energy FIT System.

Benefits:

- All-in-1 solution incl. PICV, temperature and pressure sensors, flow and BTU metering.
- User friendly w/ easy direct setting on display actuator (FIT) or direct flow setting on insert or valve (FIT-G)
- Complete overview of energy and flow with simple monitoring via Bluetooth® to FlowCon App or via BACnet to BMS
- No piping restrictions - the most compact system on the market
- Cost savings due to optimized energy consumption and improved efficiency
- True PITCVs with full pressure independent ΔT control.

