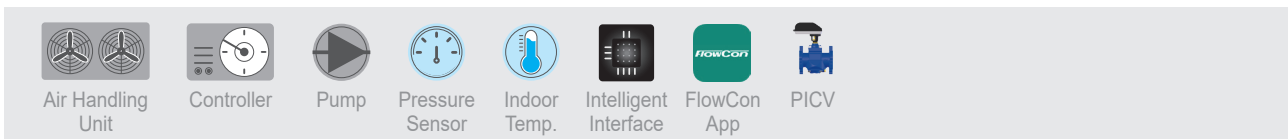
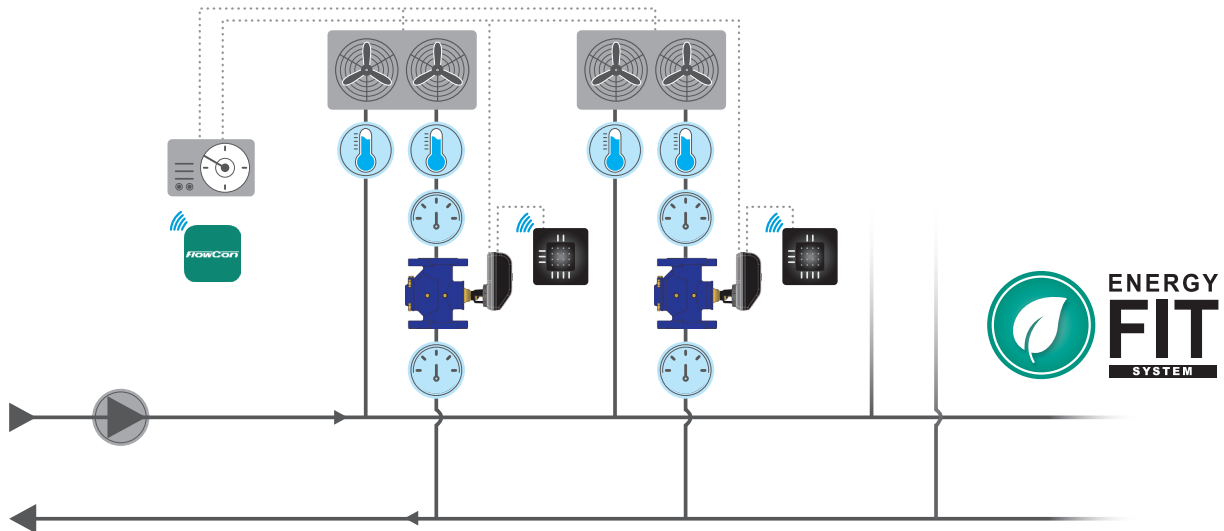


Air Handling Units

with Pressure Independent Temperature Control, Direct Control



System Functionality:

Air handling units or AHUs are either designed for in- or outdoor location, and the function of an AHU is to regulate and circulate air for proper room temperature independent of the outdoor temperature. Central elements in an AHU are the fan, the heating and/or cooling coil. AHUs are generally servicing larger areas and thereby larger flow rates. Without proper balance and control, energy consumption and operating costs will run wild. This can be prevented by installing a true pressure independent temperature control valve (PITCV) on every AHU. The PITCV will, by controlling based on ΔT alone, help significantly to reduce energy consumption and operating costs and 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 AHU performance on ΔT , flow requirements may be reduced, resulting in significant energy savings and optimized comfort 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 and temperature independency and ΔT control.

