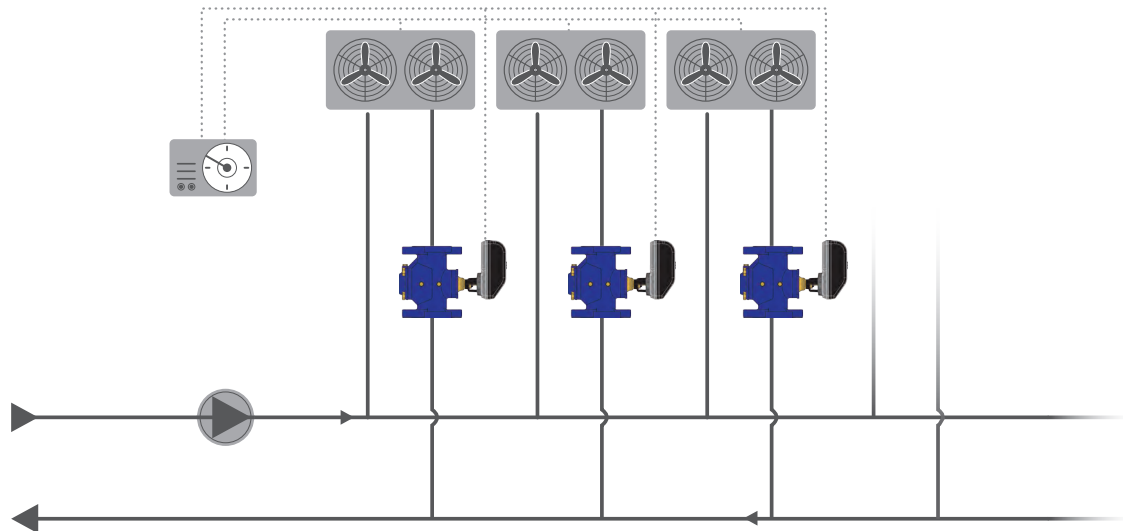


Air Handling Units

with Pressure Independent Control (PICV), 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 PICV on every AHU. PICVs will 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:

The PICV will react to system pressure changes and regulated the flow of hot or cold water to required flow by adjusting the actuator position. This helps the AHU to be accurately controlled even with pressure changes and at reduced loads.

Solutions:

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

- FlowCon Green (adjustable insert)
- FlowCon SM (built-in regulation unit).

Benefits:

- Assures correct flow for each unit automatically - also at partial loads - securing optimal comfort
- A serviceable solution due to insert-design (Green)
- Energy efficiency with regulation starting at only 16 kPaD (Green)
- Flexible solution with minimum 41 different max. flow settings
- Electrical actuators with selectable control mode, linear or equal%
- Cost savings due to reduced commissioning time
- True PICVs - 100% authority and pressure independency at all flow rates with accurate actuator control.

FlowCon PICVs



Green.3



SM