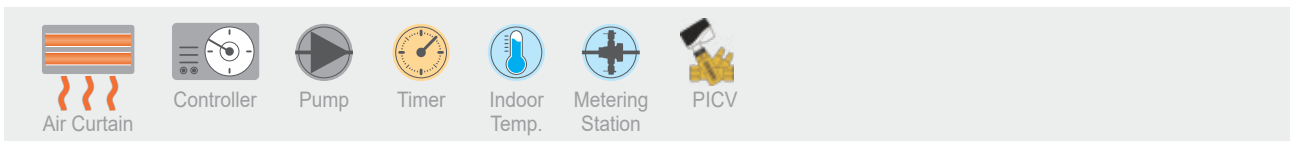
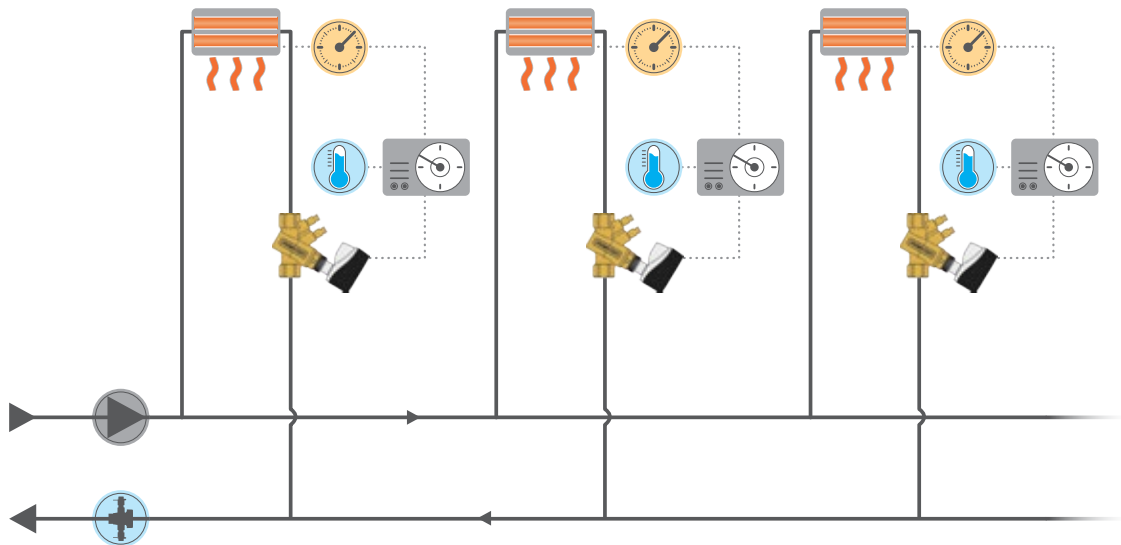


Air Curtains

with Pressure Independent Control (PICV)



System Functionality:

An air curtain is a fan-powered device which creates an invisible air barrier over the doorway to efficiently separate two different environments, without limiting the access. It helps keeping shop- and restaurant entrances free from draughts and unwanted outdoor temperatures. The air temperature is controlled by circulated water temperature and with proper balancing, an air curtain may reduce heating and cooling costs by up to 80% while protecting the indoor climate and increasing people comfort. Balancing can be obtained by installing a PICV on each unit securing no over-flow, full control and authority even at partial loads.

Requirements:

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

Solutions:

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

- FlowCon Essentia(built-in regulation unit)
- FlowCon Green / GreEQ (adjustable insert).

Benefits:

- Assures correct flow for each unit automatically - also at partial loads - securing people comfort
- Serviceable insert-design solution (Green / GreEQ)
- Energy efficiency with regulation starting at only 10 kPaD (Essentia) or 16 kPaD (Green / GreEQ)
- Flexible solution with stepless setting to minimum 41 defined max. flows
- Electrical actuators w. selectable control mode, linear or equal% or alternatively thermal ON/OFF actuators
- Accurate setting as done over multiple rotations
- Cost savings due to reduced commissioning time
- True PICVs - real pressure independency at all flow rates and all actuator positions.

FlowCon PICVs



Essentia

Green

GreEQ