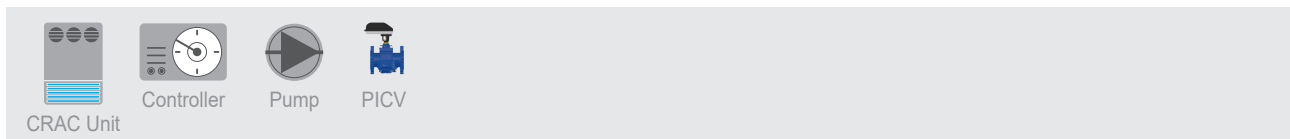
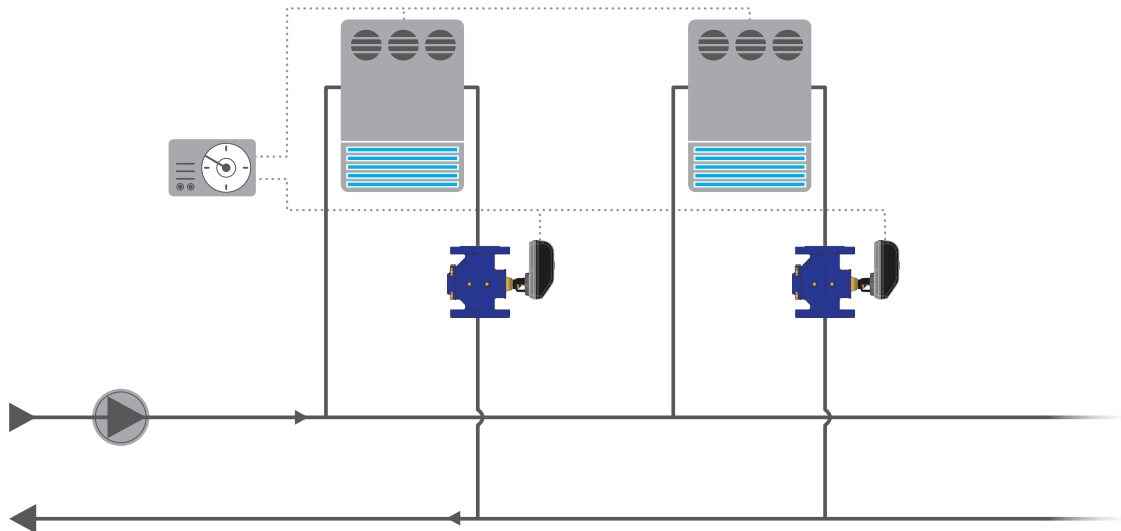


CRAC Units

Computer Room Air Condition with Pressure Independent Control (PICV)



System Functionality:

CRAC units are commonly used in data centers and other critical installations like clean rooms requiring high precision air conditioning. It consists of a direct expansion refrigeration cycle, and air is blown over a cold coil in order to achieve cooling. Without proper balance and control, energy consumption and operating costs will run wild or even worse, damaging the installed equipment. This can be avoided by installing a PICV on every CRAC unit. PICVs will help significantly to reduce energy consumption and operating costs and secure the essential high precision air conditioning.

Requirements:

The PICV will react to system pressure changes and regulated the flow of chilled water to required flow by adjusting the actuator position. This helps the CRAC unit to maintain correct flow providing the proper room temperature at all times.

Solutions:

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

- FlowCon Green.3
- FlowCon SM.

Benefits:

- Assures correct flow for each unit automatically - also at partial loads
- Flexible solution with minimum 41 different max. flow settings
- Electrical actuators with selectable control mode, linear or equal%
- Energy efficient due to optimized control
- Cost savings due to reduced commissioning time
- True PICVs - 100% authority and pressure independency at all flow rates with accurate actuator control.

