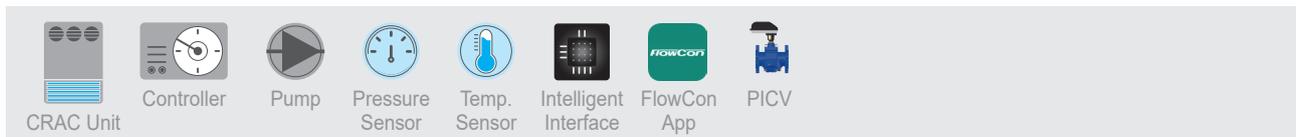
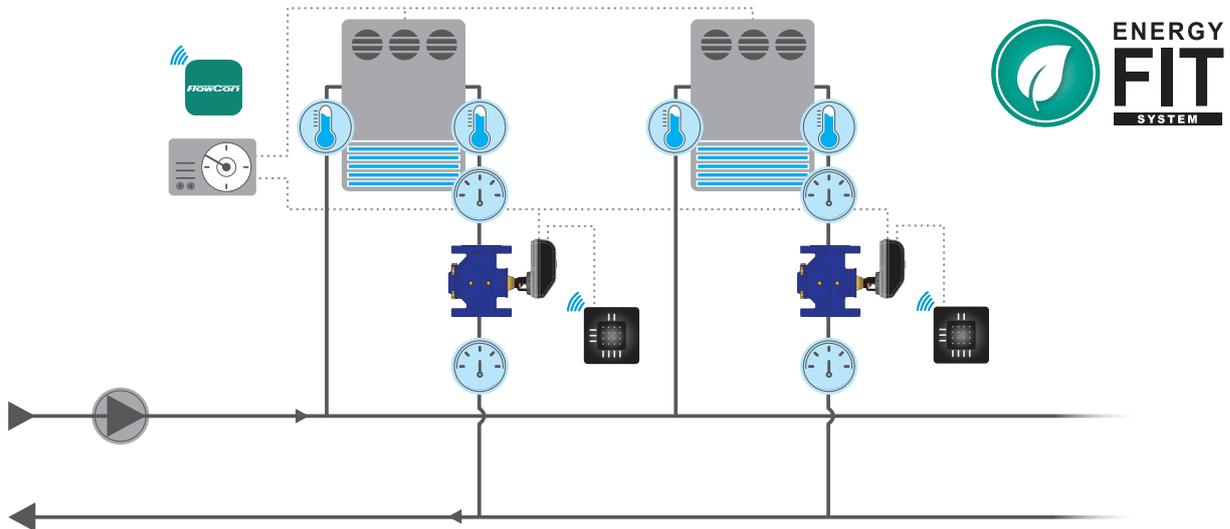


# CRAC Units

Computer Room Air Condition with Pressure Independent Temp. Control



## 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, necessary A/C is far from achieved. This can be prevented by installing a true pressure independent temperature control valve (PITCV) on every CRAC unit. The PITCV will, by controlling based on  $\Delta T$  alone, help significantly to reduce energy consumption and operating costs, secure the essential high precision air conditioning and provide monitoring benefits (BTU etc).

## Requirements:

A PITCV will only react to  $\Delta T$  changes and consequently adjust the flow by altering actuator position. System pressure fluctuations are mechanically absorbed by the included PICV. By controlling CRAC unit performance on  $\Delta T$ , 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  $\Delta T$  control.

