

AUTOMATED BRANCH FLOW CALIBRATION IN A HVAC DISTRIBUTION SYSTEM

Abstract of the Disclosure

A HVAC system automates the process of calibrating the individual branch flows of the system. For each branch of the system, a damper is closed and flow values at the output of the prime mover and at the input of the damper are measured. The damper is then opened 50% and again flow values at the output of the prime mover and at the input of the damper are measured. A flow coefficient, which correlates the flow difference measured at the output of the prime mover with the flow difference measured at the input of the damper, is then determined. The flow through each damper of each branch is calibrated in this manner, resulting in an overall balancing of the HVAC system. The automated process of branch flow calibration eliminates the tedious and time consuming process of both manual steps of measuring the branch flows and determining the flow coefficients as was performed in the prior art.

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