

I. SYSTEM BALANCING

- A. Prior to setting design flow conditions at each unit the by-pass slide dampers must be balanced against downstream duct resistance.
1. Adjust all thermostats for full cooling so that there is a maximum air flow to the zone.
 2. Using the two air flow pressure taps at each unit, green (high pressure) and yellow (low pressure), read and record the air flow pressure to the zone. (This value may be excess of design flow requirements.)
 3. After this reading has been taken, adjust thermostat for full heat or full by-pass position.
 4. When units in full by-pass position, adjust the by-pass slide damper so that the pressure reading is the same as it was for full cooling to the zone.
 5. Continue this procedure at each ABBD / ABWD unit.

II. SETTING DESIGN FLOWS

- A. Once the by-pass slide dampers have been balanced, then the zone design flow conditions can be set.
1. Again, adjust zone thermostat to full cool (maximum air flow to the zone).
 2. Adjust maximum screw stop to limit damper stroke at required maximum CFM as measured at the diffusers.
 3. Readjust zone thermostat to full heat (minimum air flow to zone).
 4. Adjust minimum screw stop to limit damper stroke at required minimum CFM as measured at the diffusers.
 5. Continue this procedure at each ABBD / ABWD unit.