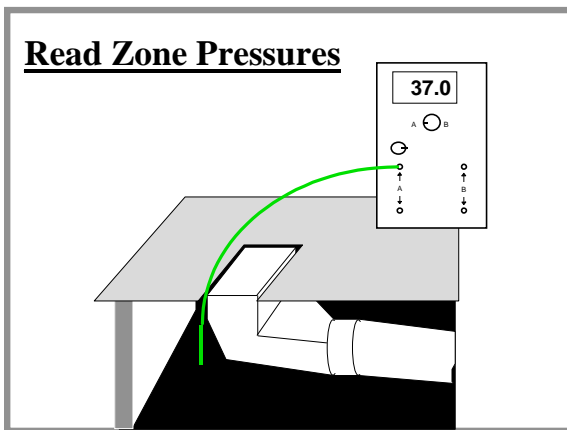


Zone Pressure Testing

Application: Determination of pressure in one Zone with reference to (WRT) another. This test is especially useful for determining the pressure boundary of a building. When ducts appear to be outside of conditioned space in attics, crawlspaces, etc., or in other intermediate zones like floor cavities, this test determines to what extent these zones are connected to the outside. The information helps interpret Pan Numbers and other test results.

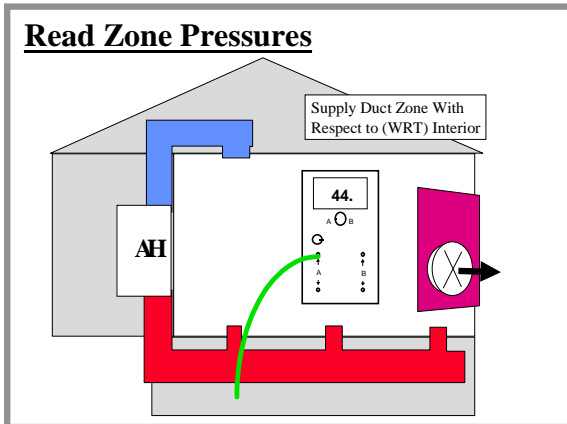


Tools:

- Blower Door
- Manometer
- Metal Probe
- Awl

Set Up:

Set up house for basic blower door test. Determine access points between zones for pressure probe.



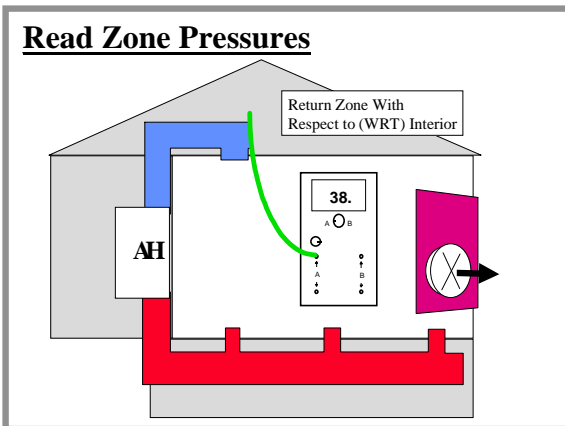
Test:

De-pressurize the house to - 50 PA using the blower door.

Insert pressure probe into zone to be tested.

Zones of interest:
Attic, Crawlspace,
Basement,
Attached Garage,

Wall Cavities, Floor Cavities between floors, Any Zone containing Ducts or the Air Handler.



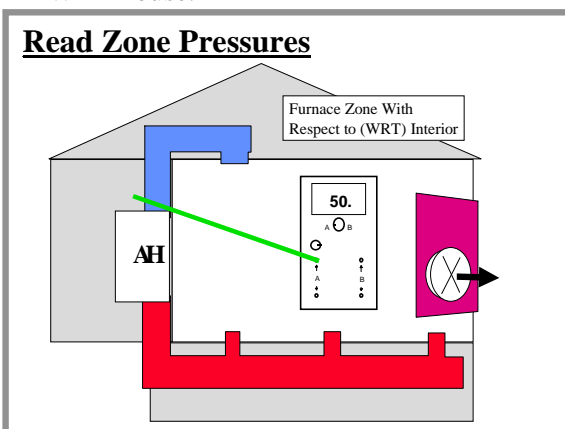
Interpreting the results:

1. Any zone totally outside the house and totally connected to the outside should show the same pressure as the outside WRT the house i.e.. 50 PA or 0 PA if the pressure is measured as the

zone WRT outside.

2. Any zone totally inside the house will be at the same pressure as the house and will show no pressure difference i.e.. 0 PA WRT to the house.

3. Zones with readings between 0 Pa and 50 PA WRT house are part of a series leakage path. Pressures closer to 50 PA WRT house will be in zones more closely connected to the outside. Pressures closer to 0 PA WRT house are more closely connected to the interior. A Zone at 25 PA is equally connected to the interior and exterior. An attic or crawlspace is considered well vented with a zonal pressure 47 to 50 PA WRT house.



Example

This Air handler (AH) is totally outside the conditioned area of the house.