



DRILLED OUTLETS

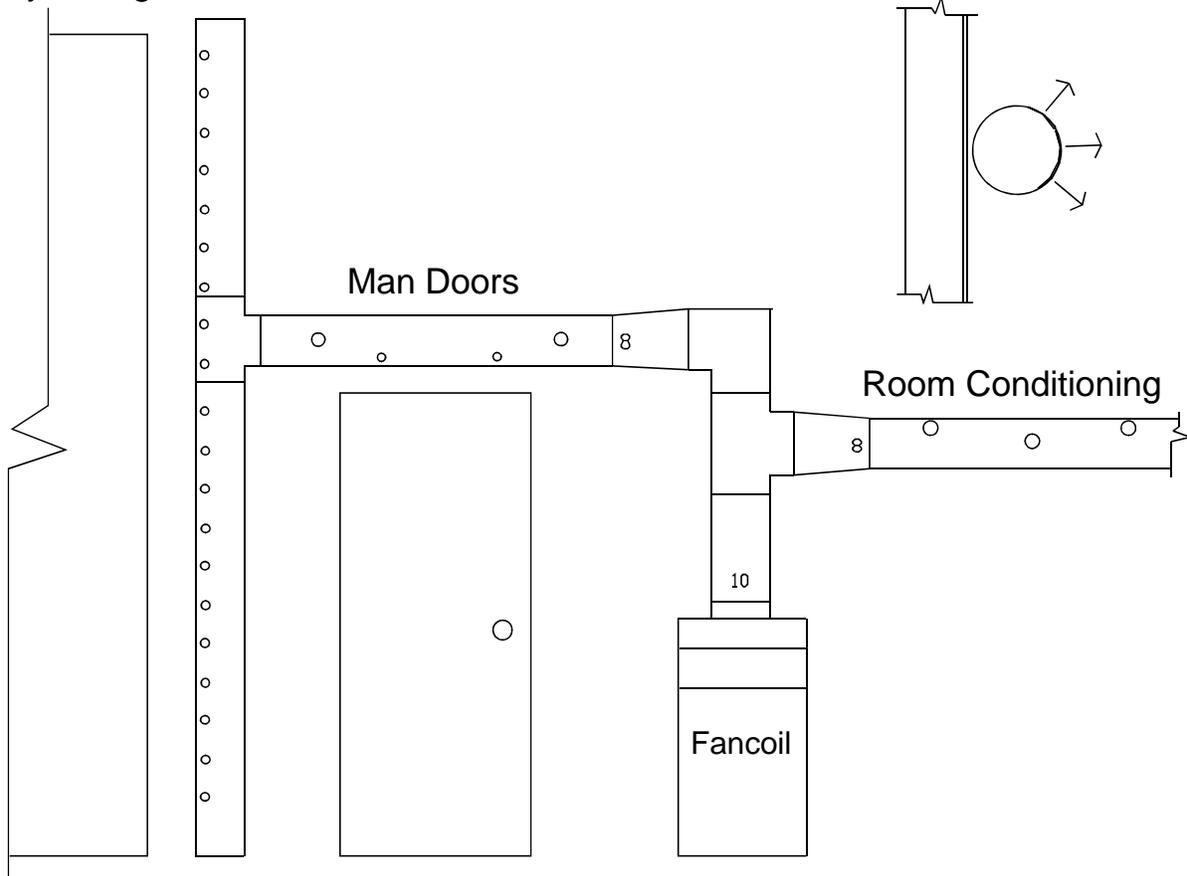
The largest market demand for our Pavilion Hi-Velocity Fancoils is for residential homes or condominiums, however it is very suitable for commercial applications. The Pavilion Hi-Velocity system can provide: Heating, Cooling, Ventilation, Filtration, humidification and De-humidification all of which is critical in commercial applications. The quiet and efficient higher pressure air, coupled with space saving duct work makes the Pavilion Hi-Velocity system an excellent choice for anyone that desires superior Indoor Air Quality (IAQ).

Systems that are set up for a large air volume structures such as commercial applications, drilled outlets in the plenum duct can be an option. 1 1/4" drilled holes are equivalent to a single 10' AFD duct with a air throw of 18'. 2" drilled outlet can also be

used and are equivalent to two - 2"x10' vent outlets, the air flow throw is up to 30' in distance. Holes larger than 2" is not recommended. Caution must to be used when not using the 2" flex duct, the air from the drilled outlet may have a air velocity noise. Using drilled outlets within a residential home with the possibility of hearing the air velocity flow is not an option. However most commercial areas have large ceiling applications where the sound can be absorbed in the room. Some examples would be, bars, noisy restaurants, warehouses, show rooms etc.

If there is an air velocity noise coming from the drilled outlets, take a static pressure reading from the plenum duct 18" from the fancoil with a depth of no deeper than 1/4" from the outside of the plenum. Drill holes into the main plenum until you reach a desirable noise level or reach a 0.7 Static Pressure. Standard supply air pressures run between 0.7 to 1.2 ESP.

Bay/Garage Doors



Multiple 1" holes 6" apart directed at a 45° angle across man and bay/garage doors creates a pressurized air curtain. In large open areas using 2" drilled outlets drilled through the top, bottom, side and at 45° angle will even the air temperatures between floor and ceiling. This style of air distribution is effective in supplying even air mixture within the area.