



DUCT SYSTEM DESIGN CONSIDERATIONS Part 1

by Roger M Hensley, CMS

TYPES OF SUPPLY DUCT SYSTEMS

There are several basic types of supply and return duct systems. Any one of the system types, or a combination of different types, can be utilized to fit the needs of a particular structure. The general types of supply duct systems include:

- radial system
- extended plenum system
- reducing plenum system
- reducing trunk system
- perimeter loop system.

Radial system

The radial duct system in its simplest form consists of a central supply plenum that feeds a number of individual branch ducts arranged in a generally radial pattern (see Figure 1). It also can be designed and sized so that each individual run leaving the plenum can feed two or more supply outlets. This is frequently the case because of the number of supply outlets required to condition the structure successfully and the amount of space at the plenum available for takeoffs. The radial system commonly is applied in attics, crawl spaces, and in slab on grade installations (with the ducts embedded in the slab). It can be used with upflow, downflow, or horizontal air handlers and furnaces.

Extended plenum system

The extended plenum duct system (see Figure 2 on the next page) generally consists of one or two box-like pieces of ductwork extending from the main

plenum at the indoor unit. This extended plenum has the same dimensions (height and width) from the starting collar to the end of the run. Branch runs to feed the supply outlets are tapped into the extended plenum(s). The best results are achieved when the maximum length of the extended plenum is not greater than 24 ft from the air handler or furnace. If two plenums are used, this total length can be extended to 48 ft (see Figure 3 on the next page). If longer distances are required based on the physical layout of the structure, consideration should be given to using one of the other designs discussed below (such as the reducing plenum or the reducing trunk duct system). There is another area of concern with the extended plenum system—because of the higher velocities in the plenum, it is possible that the branches closest to the indoor blower may not feed the desired amount of air (cfm).

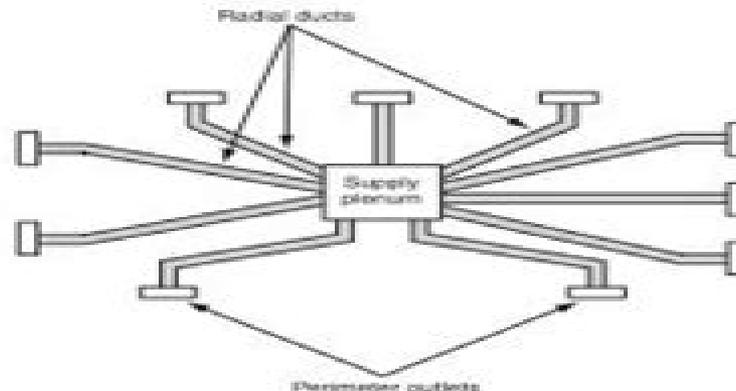


Figure 1. Radial duct system

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