

High Pressure Duct Systems

High pressure systems are becoming a popular air distribution system. They are integrated with an air-to-air heat pump or reverse cycle chiller and a smaller ducting system that is less than 1/3rd the size of a conventional duct system. Typically, the main supply duct (or trunk) is 9" in diameter. This relatively small duct can be retrofitted in most existing houses and be installed in all new construction homes. The branch ducts are only 2" in diameter and are actually flexible tubing which can be routed through spaces where conventional ducts can't. Instead of a single duct in a room, we may install as many as 6 high pressure ducts to supply the same amount of heating and cooling. The more high pressure ducts we use, the quieter the system is.

A high pressure duct system is ideal in a retrofit application. We can usually install the main duct in a crawlspace or attic and run the 2" ducts in concealed locations (existing walls or joist cavities) and give you air conditioning in rooms without the need to construct soffits or to box in the ducting. The diffusers (registers) come in a variety of colors and finishes and can even be custom made to match almost any interior finish.