



Small Duct High Velocity Heating, Cooling and IAQ Systems

Hi-Velocity Systems Case Study

Arkansas Mountain Home Residential Application



Ronnie Smith, the contractor of this mountain home project began working with the Johnson's in 2003 and it was a three year project. Everything in this home is unique, this house is three levels, all timber framed, with custom made cabinets, stone tread staircases, custom iron handrails, an elevator and an outdoor pool with an infinity edge. A wood-burning fireplace encompasses the living room with an overlooking view of Lake Noffork.

In this home a 26-ton geothermal setup supplies 4 Hi-Velocity Systems which were installed by Central Heating and Cooling out of Mountain Home, AR. Utilizing geothermal, the Hi-Velocity System will supply heated air, while a combination of Hi-Velocity Water Cooling Modules (WCM) and Refrigerant Cooling Modules (RCM) will supply the cold air. The air delivery is through two inch insulated flexible duct, that terminates to 2" adjustable vent outlets.





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The two inch ductwork results in less custom sheet metal work, minimizing waste and provides the flexibility for complex architectural designs. The high moisture removal of the Hi-Velocity Systems will remove up to 30 percent more humidity from the air, providing greater comfort while eliminating the cold clammy feeling that can exist with conventional systems.

