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sizing of HVAC ductwork systems, the manual also provides related information on: materials, methods of construction ... Duct Sizing Manual Formula Methods the Duct Sizing Manual Formula Methods that you can take. And when you really need a book to read, pick this book as good reference. The Velocity Method. Proper air flow velocities for the application considering the environment are selected. Sizes of ducts are then given by the continuity equation like: $A = q / v$ (1) where. A = duct cross sectional area (m^2) q = air flow rate (m^3/s) v = air speed (m/s) A third method for HVAC duct sizing involves using a device called a ductulator. This is a device that allows the user to input certain calculations about the areas where HVAC ducts will be installed, such as air volume and air velocity, and uses that information to output proper supply and return duct sizes. The objective of this method is to achieve a more nearly balanced system thereby reducing noise and making the system more easily balanced when commissioned. The T-Method Optimisation optimises the duct design on the basis of system capital cost and the present worth of energy.