
Ashrae Duct Fitting Database

.25 mm and .5 mm (centerline) ducts of most materials and provides ancillary tables for duct space size, wire size, calculated draft load, and duct surface areas. The duct data are subdivided into categories of duct types, duct materials, and duct applications and support duct space clearance, draft, and flow modeling. The database is created to provide comparative efficiency data for the hundreds of existing ASHRAE Standard Handbook duct fittings, which do not typically include calculations for model ducts. It provides data to establish operating temperature limits for an identified round, rectangular, .25 mm, or .5 mm duct, as well as tables and charts for duct sizes, draft, duct space clearance, and duct draft numbers. (Duct draft is the drop in temperature between the supply duct and room return duct and is dependent on duct size, duct construction, room heat load, and heat transfer coefficient.) Database users can modify the values in the tables, and a defined wire size, supplied with the database, is used for all duct sizes, in addition to the wire size of the standard duct fittings. Optional tables include coefficient values for ducts with dimensions and material or wire size outside the scope of the standard database. Application design and implementation ===== ASHRAE duct data ----- The ASHRAE Duct Fitting Database provides duct and wire data for rounds, rectangular, .25 mm, and .5 mm ducts for a wide range of duct materials, including drywall, metal, concrete, tile, and asbestos (see [Table 1] for examples). The database also includes ducts with branch and web fittings, and the database provides duct and wire data for round, rectangular, and .5 mm ducts with centerline lengths from 24 inches (60.96 cm) to 70 inches (178.41 cm) and for round, rectangular, and .5 mm ducts with centerline diameters from .75 inch (1.90 cm) to 8 inches (20.32 cm). Each table includes a number of applicable duct materials and sizes with tables for wire sizes and draft numbers.

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