

Fabric Duct versus Sheet Metal Duct, Why?

BENEFITS OF FABRIC DUCT



Lightweight

Our fabrics weigh no more than 0.4-1.0 Oz/ft². This results in featherweight loads on building structures and minimizes site labour.

Indoor Air Quality

Our unique and flexible approach to air distribution Systems, involving a number of propriety fabrics and Flow Models, ensures maximum comfort in occupied spaces.

Silent air delivery

Under normal operating conditions, fabric ducts generate a maximum noise of NC 20, making this product the first choice of End Users and Architects.

No Condensation

Permeable fabrics leak supply air through the entire surface area of fabric ducts. Even with high temperature differences condensation will not settle on fabric ducts during cooling operations.

Minimize on site labor

Our unique series of suspension systems, coupled with lightweight fabric ducts drastically cuts down site labour hours.

No price increases

The price of fabrics follows normal inflationary trends and shows no sign of wild fluctuations which results in price predictability for fabric ducts.

Simple maintenance

Fabric ducts are simple to launder and clean when necessary, making planned maintenance cost effective.

A wide range of colors

The fabric duct is available in an attractive range of colors that will enhance any interior décor.

DOWNSIDE OF SHEET METAL DUCTS



Heavy

Conventional sheet metal duct is some 40 times heavier than fabric duct, subjecting roof and overhead structures to increased loading. Site rigging is costly, involving lifting gear and additional labor.

Outdated Air Distribution Technology

Conventional sheet metal systems often generate both stagnant zones and areas with drafts in the occupied spaces. This technology has not kept pace with the increasing demand for improved IAQ.

Generates noise

High exit velocities through grilles and diffusers generate irritating noise, while rigid sheet metal ducts transmit mechanical noise through to the occupied spaces.

Insulation required

Un-insulated sheet metal ducts act as condensing surfaces for free moisture in the surrounding air, resulting in the build up of unhygienic condensation and mould, which present a health hazard.

High installation cost

The complexity of hanging heavy sheet metal ducts, coupled with additional labor for mounting grilles and diffusers, makes the installation of this type of system costly.

Inflation hits metal prices

The current high demand for steel has resulted in an unprecedented price hike in common sheet metal resulting in large cost increases in the sheet metal duct industry.

Duct cleaning

Cleaning the inside surface of a sheet metal duct system is difficult and therefore more costly resulting in extended periods between necessary maintenance.

On site painting

To enhance a sheet metal duct system needs extensive on-site preparation and painting adding significant extra cost to the system.