



Not just Fabric, But Solutions Laboratories

Air Distribution Concepts® Fabric Duct Solutions for Laboratories

Laboratory is preferred because it delivers highly uniform, low-velocity air distribution that supports precise environmental control without creating drafts or turbulence that can disrupt sensitive processes. The fabric system provides even airflow across space, improving temperature stability and helping maintain consistent pressure relationships critical in lab environments.

Unlike metal ductwork, fabric ducts eliminate condensation and dripping, reduce noise, and can be manufactured with antimicrobial treatments to support cleanliness and hygiene standards. Lightweight and customizable, Air Distribution Concepts fabric ducting integrates easily around lab equipment and ceiling constraints while offering washable, replaceable duct sections that simplify maintenance and reduce downtime - making it a reliable, efficient solution for modern laboratory HVAC design.

With the ADC Textile Based Ventilation Engineering Design Program, it provides solutions that you can trust and data that you can view and verify in your design process.

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Benefits of using ADC Fabric Dispersion Systems:

- The material is cleanroom certified as class 4 acc. to ISO 14644-1 - no shedding of particles
- Uniform air distribution - Delivers consistent, low-velocity airflow to maintain stable temperature and pressure conditions throughout the lab
- Draft-free performance - Prevents turbulence that can interfere with sensitive experiments, instruments, and containment controls
- Improved contamination control - Even airflow patterns help reduce stagnant zones and airborne particle accumulation
- Condensation-free design - Fabric duct eliminates sweating and dripping common with metal ductwork in conditioned spaces
- Quiet operation - Significantly reduces noise levels, supporting focused research and testing environments
- Hygienic materials - Available with antimicrobial fabrics to support cleanliness and laboratory hygiene standards
- A custom-engineered airflow - Perforation and nozzle designs tailored to specific lab requirements and air change rates
- MADE IN AMERICA