

# Discover the Advantages of Fabric Air Dispersion



differentiate

# Open & Finished Ceiling Architecture

## On the Cover

DuctSox Systems discharge air through a combination of porous fabrics, engineered orifices, and linear vents.

Smoke testing reveals uniform air flow patterns in all of our DuctSox products, including the original DuctSox System (pictured middle), LabSox™ (pictured left), and UFSox™ (pictured right).

## Why DuctSox®?

DuctSox Systems are used to distribute and disperse air in open and finished ceiling architecture, are cost effective, and are an aesthetically attractive alternative to metal ductwork. DuctSox are used to distribute and diffuse heated, cooled, refrigerated, and make-up air to meet a large range of HVAC and refrigeration requirements in virtually any market segment.

Advantages and benefits include: superior air dispersion, simple and easy installation, quick balancing, lightweight, flexible, air porous fabrics, hygienic, and fast shipping.

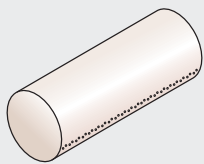
We also offer a patented Adjustable Flow Device (AFD). An AFD offers variable resistance to balance static regain and airflow, and reduces abrupt start-ups.



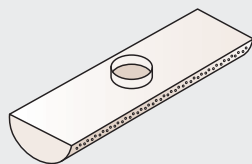
## Selecting a System

Selecting a DuctSox System can be done in four easy steps:

1. Select the Series: DuctSox are available in two series, Cylindrical and Surface Mount (half-round or quarter panel).

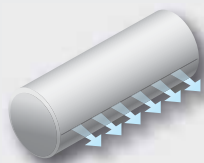


Cylindrical

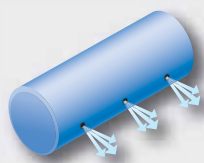


Surface Mount

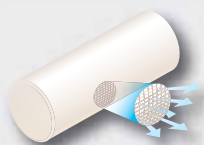
2. Select the Proper Model: To better fit your space, DuctSox is offered in three airflow models.



**Comfort-Flow:** Air delivery via linear vents providing a gentle air flow. Applications include high occupancy spaces with emphasis on optimum air diffusion and mixing, creating comfortable environments.



**High-Throw:** Orifices providing extended distance and jet-type air flow. Applications include both low and high occupancy spaces. Careful consideration should be given to factors that affect comfort.



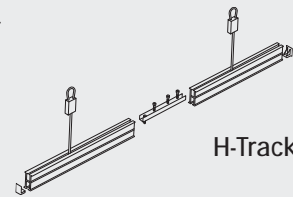
**Low-Throw:** Porous fabric providing reduced air velocities of less than 9 m/min at DuctSox surface. Ideal for food processing environments where elimination of drafts, uniform air distribution, and secondary air filtration are required.

3. Select the Proper Fabric: Choose from seven fabrics, including Sedona-Xm, TufTex, Verona, DuraTex, Microbe-X, Stat-X, and EkoTex (see the following page for fabric details).

4. Select the Proper Suspension System: The right suspension system depends on architectural appeal, economy, and availability of suspension options with the selected fabric. Options include:



Cable



H-Track



**Flush Mount Cord In** is available for select fabric options. Designed to affix to a flat surface. Available for one row suspension option and all surface mount models.



**H-Track Cord In** allows easy location of vertical supports and clear connection to the DuctSox. Available for most fabric options and all sizes.



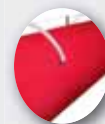
**Tension Cable** is available for all fabric options and is the most economical option. Available for all sizes. Available for one and two row suspension options.



**Flush Mount Snap Tab** is available for select fabric options. Designed to be affixed to a flat surface. Available for one row suspension option and all surface mount models.










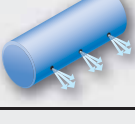

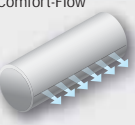
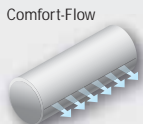

**H-Track Snap Tab** allows easy location of vertical supports and clear connection to the DuctSox. Available for most fabric options and all sizes.



**Hanger Suspension System** is available for use with either tension cable or H-Track and 3x1 or 4x2 hangers. Available for larger sizes up to 1524 mm diameter.

fabric air dis

# Fabric Options

	FABRIC	MODEL	SPECS	WARRANTY
Premium	 <p><b>Sedona-Xm™</b> "Green" fabric with 55% recycled content. Features an active antimicrobial agent and a matte fabric finish. Includes finished seams, positive inlet anchoring system with cover-up sleeve, zippered endcaps, and zippered inlet collar for a DuctSox Final Filter or Adjustable Flow Device. Air permeable. Machine washable. Available with all suspension systems. Also available in a patterned Coronado™ fabric.</p>	<p>Comfort-Flow</p>  <p>High-Throw</p>  <p>SG Diffuser required</p>	<p>Weave: Fire Retardant Polyester Filament / Filament Twill 55% Recycled Content</p> <p>Weight: 231 g/m<sup>2</sup></p> <p>Porosity: .61 (m<sup>3</sup>/min)/m<sup>2</sup> @ 124 Pa</p> <p>Treatment: Active Antimicrobial</p> <p>Colors: Blue, Natural White, Red, Green, Tan, Gray, Black</p> <p>Codes: UL Classified, NFPA 90A, ICC/AC167</p>	<p><b>DUCTSOX</b> <b>WARRANTY</b> <b>10</b> <b>YEAR</b></p>
	<p><b>TufTex™</b> Heavyweight, premium grade non-permeable polyester fabric. Woven with a textured finish. Features finished seams, positive inlet anchoring system with cover-up sleeve, zippered endcaps, and zippered inlet collar for a DuctSox Final Filter or Adjustable Flow Device. Machine washable.</p>	<p>Comfort-Flow</p>  <p>High-Throw</p> 	<p>Weave: Fire Retardant Polyester Plain Weave, Coated</p> <p>Weight: 278 g/m<sup>2</sup></p> <p>Porosity: None</p> <p>Colors: Red, Green, White, Blue, Taupe, Silver, Black</p> <p>Codes: UL Classified, NFPA 90A, ICC/AC167</p>	<p><b>DUCTSOX</b> <b>WARRANTY</b> <b>10</b> <b>YEAR</b></p>
Commercial	<p><b>Verona™</b> Woven air permeable commercial grade fabric. Features include finished seam construction, positive inlet anchoring system, and zippered inlet collar for the addition of DuctSox Final Filter or Adjustable Flow Device. Machine washable. Available with all DuctSox suspension systems.</p>	<p>Comfort-Flow</p> 	<p>Weave: Fire Retardant Polyester Filament / Filament Twill</p> <p>Weight: 210 g/m<sup>2</sup></p> <p>Porosity: .61 (m<sup>3</sup>/min)/m<sup>2</sup> @ 124 Pa</p> <p>Colors: Green, Red, White, Blue, Tan, Gray, Black</p> <p>Codes: UL Classified, NFPA 90A, ICC/AC167, UL-C (Canada), BS 5867, Part 2, 1980, GB8624-2006</p>	<p><b>DUCTSOX</b> <b>WARRANTY</b> <b>5</b> <b>YEAR</b></p>
	<p><b>DuraTex™</b> Medium weight, commercial grade nonpermeable fabric. Our most economical polyester-based fabric. Features include an inlet collar with positive inlet anchoring system and zipper inlet collar for the addition of DuctSox Final Filter or Adjustable Flow Device. Machine washable. Available with all suspension systems.</p>	<p>Comfort-Flow</p>  <p>High-Throw</p> 	<p>Weave: Fire Retardant Polyester Plain Weave, Coated</p> <p>Weight: 186 g/m<sup>2</sup></p> <p>Porosity: None</p> <p>Colors: Taupe, White, Blue, Silver, Black</p> <p>Codes: UL Classified, NFPA 90A, ICC/AC167</p>	<p><b>DUCTSOX</b> <b>WARRANTY</b> <b>5</b> <b>YEAR</b></p>
Specialty	<p><b>Microbe-X™</b> Developed for food processing applications, this fabric offers a lightweight and highly launderable filament fiber construction. Polyester yarns are treated with a non-leaching antimicrobial—controlling harmful bacteria, fungi, and mold growth and transmission. Effective after 100 wash cycles. Finished seams and a heavyweight inlet collar with an integral DuctBelt and attachment loops. Machine washable. Available with all suspension systems.</p>	<p>Low-Throw</p>  <p>Comfort-Flow</p> 	<p>Weave: Filament Polyester</p> <p>Weight: 109 g/m<sup>2</sup></p> <p>Porosity: 1.83, 3.96, 6.10, 8.84 (m<sup>3</sup>/min)/m<sup>2</sup> @ 124 Pa</p> <p>Treatment: Non-leaching, Permanent Antimicrobial</p> <p>Color: White</p> <p>Codes: USDA Approved</p>	<p><b>DUCTSOX</b> <b>WARRANTY</b> <b>1</b> <b>YEAR</b></p>
	<p><b>Stat-X™</b> Engineered polyester-based fabric designed for electrically-sensitive environments. Includes ESD (Electro Static Dissipative) yarns woven in a grid pattern approximately 6.4 mm x 6.4 mm to dissipate static buildup. Lightweight, air-permeable fabric, finished seams, heavy-duty inlet collar with positive inlet anchoring system, and zipper inlet collar for the addition of DuctSox Final Filter or Adjustable Flow Device. Machine washable. Available with all suspension systems.</p>	<p>Comfort-Flow</p> 	<p>Weave: Filament Polyester with Interwoven ESD Yarns</p> <p>Weight: 98 g/m<sup>2</sup></p> <p>Porosity: .76 (m<sup>3</sup>/min)/m<sup>2</sup> @ 124 Pa</p> <p>Colors: Light Blue, White</p> <p>Codes: UL Classified, NFPA 90A, ICC/AC167, UL-C (Canada)</p>	<p><b>DUCTSOX</b> <b>WARRANTY</b> <b>5</b> <b>YEAR</b></p>
Economy	<p><b>EkoTex™</b> Lightweight, non-porous woven and coated polyester material. The most economical DuctSox fabric, features simple construction, including an inlet collar with DuctBelt and Buckle. Machine washable. Available in round shape with H-Track or Cable suspension.</p>	<p>High-Throw</p> 	<p>Weave: Fire Retardant Polyester, Plain Weave, Coated</p> <p>Weight: 105 g/m<sup>2</sup></p> <p>Porosity: None</p> <p>Treatment: Non-Permeable Coating</p> <p>Colors: Silver</p> <p>Codes: UL Classified, NFPA 90A, ICC/AC167, BS 5867 Part 2, 1980, GB8624-2006</p>	<p><b>DUCTSOX</b> <b>WARRANTY</b> <b>1</b> <b>YEAR</b></p>



More than evolving our standard products, DuctSox strives to be the leader in the industry through our commitment to quality, service, and innovation. This commitment has allowed us to expand our product offerings, including LabSox and UFSox.

## LabSOX™

*Air Dispersion For Critical Environments*

LabSox Products are fabric air dispersion devices designed for laboratory environments (vivariums, pharmaceutical, research education, etc.) in critical applications commonly associated with a fume hood or other airflow sensitive equipment (scales, lasers, microscopes, etc).

Airflow in laboratories is a critical design factor as turbulent air can negatively effect research or even cause hood failure resulting in a compliancy issue. The LabSox advantage is clear. Air passes through specialized fabric panels resulting in uniform, low velocity, radially diverging air patterns with little, if any, turbulence. LabSox products are not only ideal for labs of the future, but can be easily retrofitted to resolve air flow issues in existing facilities.

Benefits and features include: better air dispersion; low discharge velocity; reduced noise; unique fabrics; better performance at a lower cost; Surround Flow™ or Select Flow™, and D-Fuser All-Fabric™, D-Fuser MetalPan™, or Traditional™ options available.

## under floor SOX™

*Plenum Air Dispersion Systems*

UnderFloorSox (UFSox) are fabric air dispersion systems designed to distribute and disperse air to perimeter and high-heat load locations in Under Floor Air Distribution (UFAD) Systems.

UFAD is a relatively new and unique method for delivering conditioned air in offices and other commercial buildings. Unlike conventional overhead air-mixing systems, UFAD Systems use the space beneath the raised access floor as a plenum to introduce air into the occupied space, usually through special floor-mounted diffusers. Typical applications that employ UFAD design are in high-tech office and business spaces utilizing cable for voice, power, and data transmission.

UFAD Systems are becoming increasingly accepted in commercial building space as the benefits can include improved employee comfort, improved productivity and health, reduced energy costs, reduced floor to floor heights, improved indoor air quality, and reduced life cycle building costs.

UFSox are an effective solution for supplying air to perimeter and special high-heat load zones of an UFAD System. The key benefits and features include: even air dispersion, simple assembly and installation, availability of air porous fabrics, lower total cost, and easy retrofit.

For more information on LabSox, UFSox, or any of our other DuctSox products, check us out at [www.ductsox.com](http://www.ductsox.com), or contact us at 866-382-8769!

Products may be covered by one or more of the following patents: 6565430, 6558250, 5769708, 6425417, 6626754, 6280320, 5961044, 5655963, 6960130, 6958011, 6953396, 6899615

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**DUCTSOX®**  
*Fabric Air Dispersion Products*

4343 Chavenelle Road ■ Dubuque, IA 52002

Ph: 866-382-8769 ■ Fax: 563-589-2754

[www.ductsox.com](http://www.ductsox.com)

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