

FabricAir® Dispersion Systems

Suspension systems

Fabric Description

Flow Models Description
Fabric Color Chart Warranties

- **BEST WARRANTY**
- **NOISELESS VENTILATION**
- **LIGHTWEIGHT SOLUTION**
- **IMPROVED INDOOR AIR QUALITY**
- **NO CONDENSATION PROBLEMS**
- **DRAUGHT FREE AIR DISTRIBUTION**
- **LOWER INSTALLATION COST**
- **WIDE RANGE OF COLOURS**
- **EASY MAINTENANCE**

Certificate of
Registration
File number:

A13655



ISO9001:2000

FabricAir



Table of Content

Dear Customer, thank you for your interest in FabricAir. Our organization provides extended engineering services together with a wide range of highly developed products which we distribute through a network of dedicated companies.

We are committed to the highest levels of customer service and hope that reading this brochure will be your first step towards a long and mutually profitable relationship with FabricAir.

For further information please check our website www.fabricair.com, or call our UK office.

Sincerely

B. Refsgaard
President

Articles	2
<i>Local representatives</i>	
<i>Benefits for architects, consultants and engineers</i>	
<i>Unique advantages with the original fabric duct system</i>	
What does FabricAir® Provide that other fabric ducts suppliers don't	4
<i>Air Throw</i>	
<i>The Best Warranty in the Industry</i>	
<i>CFD technology saves time</i>	
<i>CAD drawing, CAM manufacturing</i>	
<i>Quality Certificate</i>	
Fabric duct versus sheet metal duct, why?	5
Picture gallery	6
<i>Frequently asked questions.</i>	6
<i>Add a Logo (print on ducts).</i>	8
<i>LowNoise™ solutions (Music Studios ect.)</i>	10
<i>Proven Performance</i>	11
<i>Fabric Durability</i>	13
<i>Fabric permeability</i>	13
Fabrics, according flow models, standard colors and duct profiles	
FabricAir® Trevira CS	14
FabricAir® Basic	16
FabricAir® Antistat	18
FabricAir® PUR100	20
FabricAir® PUR75	24
FabricAir® Poly	24
Suspension systems	26
Flow models	28
Selecting fabric and flow model, a GUIDE	
<i>Sound, step 1-3</i>	30
<i>Applications, step 4-8</i>	31



Local Representatives

Our UK engineers and support staff are only a phone call away. Call 01709 835989 or visit www.fabricair.com/distributors
Our experienced sales engineers will be delighted to hear from you and provide a solution to your ventilation and air conditioning requirements.
We are renowned for our industry experience and detailed knowledge of fabric air products and systems.
- *FabricAir People Who Care.*



Benefits for Architects, Consultants and Engineers

The original product

FabricAir® was the first company to produce and market fabric duct systems.

CFD (Computational Fluid Dynamics)

This is an exciting new way to provide our customers (Architects, Consultants, Engineers and End Users) with the opportunity to predict the air velocity and temperature distribution in any range of circumstances.

R & D

FabricAir has a long tradition of research and development since the initial invention of the original FabricAir Concept in 1973. FabricAir continues to set the standards for the entire industry.

All FabricAir Systems are tailor-made

All solutions are developed in close cooperation with the End User's selected professionals to provide the best air distribution for the project, meeting or exceeding all specifications and standards that may apply to the particular application.

Lightweight

A FabricAir duct system is much lighter than a comparable metal system. FabricAir offers state of the art,

lightweight permeable and non-permeable fabrics.

Flexibility

With a FabricAir dispersion system there are no limitations when it comes to dimensions, colour, offsets, elbows, nozzles, slots and other important product features.

Draught-free

One of the major advantages, and the initial reason for developing fabric based duct systems, is the absence of any draught. The system also meets any functional requirements for hygiene, aesthetics and ease of maintenance.

Easy Installation

FabricAir duct systems are easily installed and can offer savings of up to 75% of the manpower needed to install other types of duct systems.

Easy Maintenance

FabricAir systems are easily removed, washed and reinstalled when cleaning is necessary.

Cost Benefits

The overall cost savings make a FabricAir duct solution very competitive regardless of the setting and environment.

What is the product?

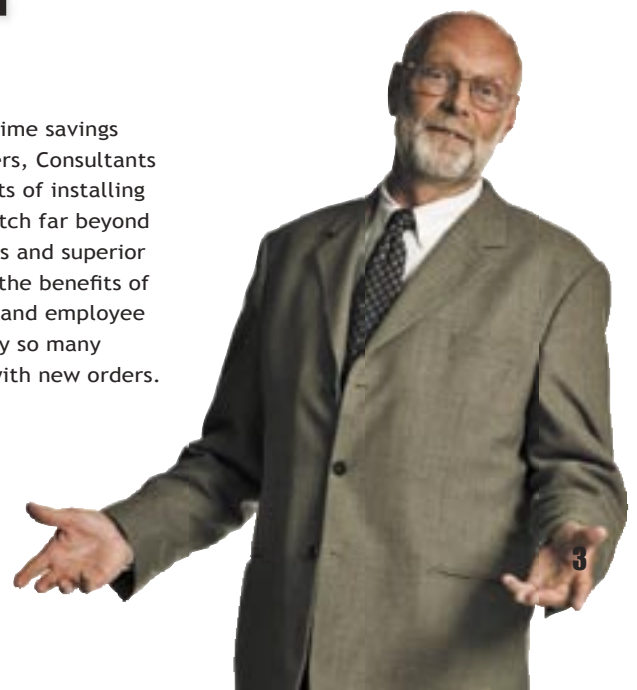
FabricAir® Dispersion Systems employ fabric to deliver conditioned air to a wide variety of applications with varying individual requirements. FabricAir® Ducts can be installed using a number of different suspension systems which allow easy installation and rapid removal for washing and maintenance.

The systems are lightweight and extremely flexible and are specified for use in leisure, retail, media and broadcasting, manufacturing, education, commerce and food processing. Available in round and half-round profiles, these systems are easily suspended from ceilings, roof structures and walls to provide a flexible and cost-effective air distribution system. The fabrics are available in a wide range of standard and custom colours. It can also be customized with company logos and advertising messages.

Unique Advantages of the Original Fabric Duct System

FabricAir duct systems offer the ideal solution for cooling, heating, ventilation and refrigeration applications. Our solutions are tailor-made to fit the customer's exact needs. It is now possible to obtain an accurate graphic preview of the air movement and temperature gradients in any given application using the unique CFD (Computational Fluid Dynamics). CFD is one

of FabricAir's valuable and time savings tools for Architects, Engineers, Consultants and Contractors. The benefits of installing a FabricAir duct system stretch far beyond the considerable cost savings and superior product quality. Add to this the benefits of improved Indoor Air Quality and employee comfort and you can see why so many people return to FabricAir with new orders.



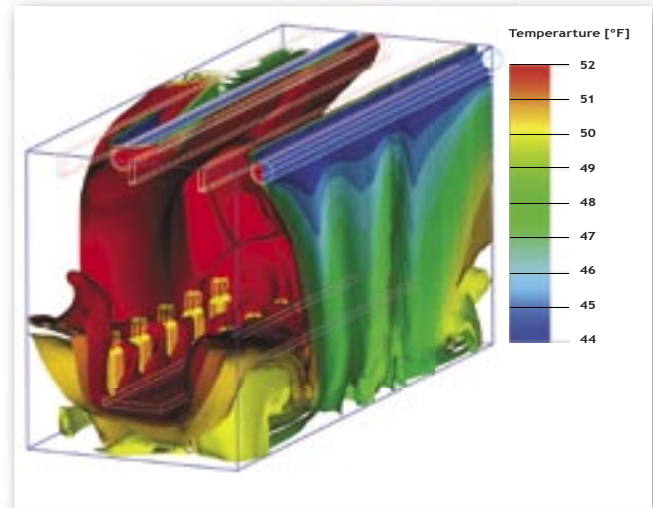


What Does FabricAir® Provide That Other Fabric Duct Suppliers do not?

Our fully integrated Engineer Services Package is designed to provide maximum benefits through our consultative approach to the business of selling effective air distribution systems.

Air Throw

As part of our ongoing R & D we have developed the Air Directional Nozzle to give extended air throws where needed. The nozzles are designed with an “engineered” throat to give maximum throw at low duct static pressure. This technology is unique to FabricAir®, and is often imitated by others.



CFD Technology saves time

This technology enables you to see the results of the chosen air distribution system long before it is built, and is a valuable tool in ensuring that only the right system is finally installed on the project. FabricAir®, provides you with a number of unique alternatives for your final selection and will systematically guide you through the various stages of selection and engineering of our broad product range.

All FabricAir® ducts are manufactured with a unique serial tag number identifying individual duct pieces, making the job of installing sections easy. Tag numbers are registered in our CAD/CAM facility enabling quick manufacturing turnaround worldwide for shipping of spare parts.



Certificate of Registration File number:

A13655



ISO9001:2000

Quality Certificate

FabricAir® is a UL-registered firm which means that we fulfill ISO 9001:2000.

CAD drawing CAM manufacturing

As part of our submission package we lay out all important details of the duct system on CAD drawings, showing individual duct tag numbers for easy site identification. Duct sizes, lengths and associated fittings are detailed for your final approval.

After final approval the accepted duct details are fed into our CAM system for timely manufacture and shipping to your project site.



Fabric Duct versus Sheet Metal Duct, Why?

BENEFITS OF FABRIC DUCT



DOWNSIDE OF SHEET METAL DUCTS



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.

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 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.

Outdated Air Distribution Technology

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

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.

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.

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.

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.

Minimize on site labor

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

High installation cost

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

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.

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.

Simple maintenance

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

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.

A wide range of colors

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

On site painting

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

Food Industry



Stores



Supermarkets



Frequently asked questions

Question	Answer	Tip
What happens when the duct gets dirty?	The duct system can be taken down and washed in a domestic or commercial washing machine. Please refer to our standard washing instructions.	Using properly engineered pre-filters upstream of the duct can prevent the need for frequent washing. If in doubt, please check with our Technical Dept.
Will colours fade?	No, colours will not fade if the duct is maintained as per our standard instructions and installed in appropriate areas.	Ducts should not be exposed to direct sunlight.
Does the duct burn?	All the fabrics used in constructing the various ducts are flame retardant and will not support combustion.	Please refer to our technical binder or www.fabricair.com for documentation.
Do the ducts generate noise?	No the ducts are "neutral" in terms of noise, they neither generate noise nor absorb it.	Always provide a good sound attenuator between the fan and the duct in order to reduce mechanical and air noise being transmitted (see page 30).
What about draughts?	A well-engineered fabric duct will not create annoying draughts in the office, room or workspace.	If in doubt contact our Technical Department for recommendations.
What does the duct weigh?	A typical installation, will not weigh more than an average of 3 lbs per linear foot of duct.	Compare this weight to sheet metal duct.
How easy is it to install this type of system?	It is both easy and saves a lot of on-site labour. In fact it can be erected using unskilled labour.	Time savings up to 90% compared to sheet metal duct.
How long will it last?	Given normal operating conditions and washing cycles, the FabricAir® duct system should last 15 years or more.	Proper maintenance and care extends the longevity of the duct.
What about Quality?	FabricAir® is a UL-registered firm which means that we fulfill ISO 9001:2000.	If in doubt, ask for our current Certificate of Compliance.



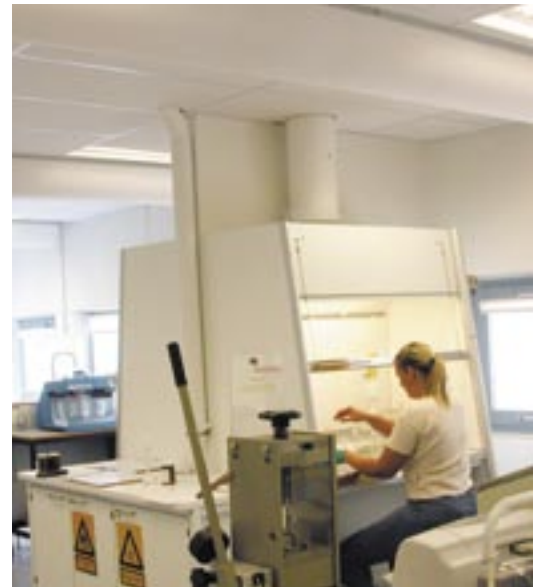
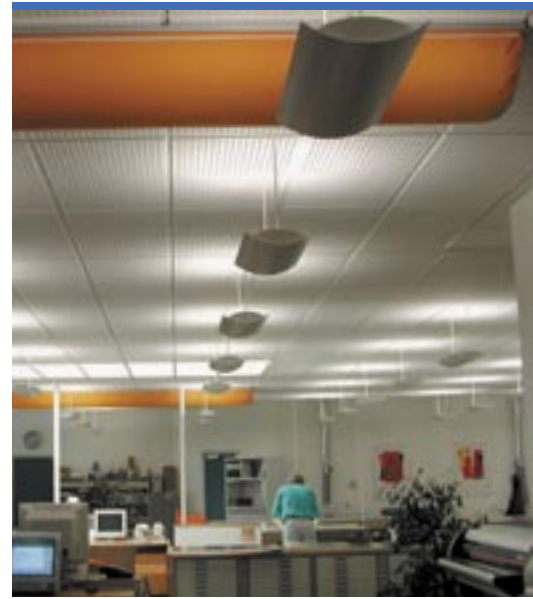
Pharmaceutical Plants



Warehouses



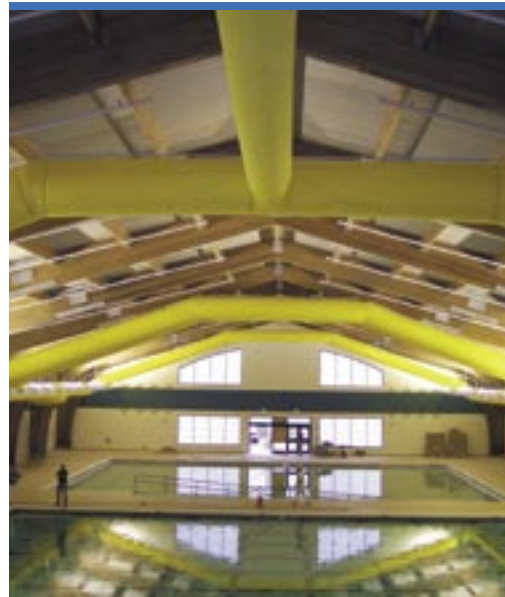
Laboratories



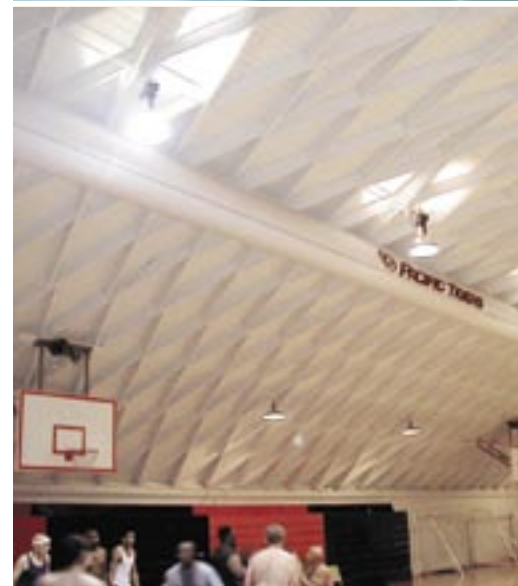
Fitness



Pools



Sport



HOME OF THE PANTHERS

Add a Logo

Add graphics, logos or even pictures, all in full colour, to further enhance the benefits of FabricAir® ducts. Especially spectacular in gyms and sporting arenas.