

FabricAir® Dispersion Systems

Noiseless
Ventilation

A Lightweight
Solution

Improved
Indoor Air Quality

No Condensation
Problems

Draft Free Air
Distribution

Lower
Installation Cost

Easy Maintenance

Many Colors
to choose from

Best Warranty
in the Industry

The Sky is the
Limit with Fabric
Duct from FabricAir



Certificate of
Registration
Filenumber:

A13655

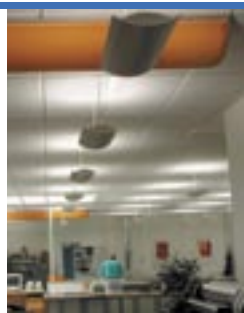


ISO9001:2000

A Flexible And Cost Effective Air Distribution

FabricAir® Dispersion Systems employ woven materials 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 fire retardant, woven material is anti-bacterial and mould-resistant. Available in a wide range of standard and custom colours, the material can also be customized with company logos and advertising messages.



Benefits for Architects, Consultants and Engineers

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.

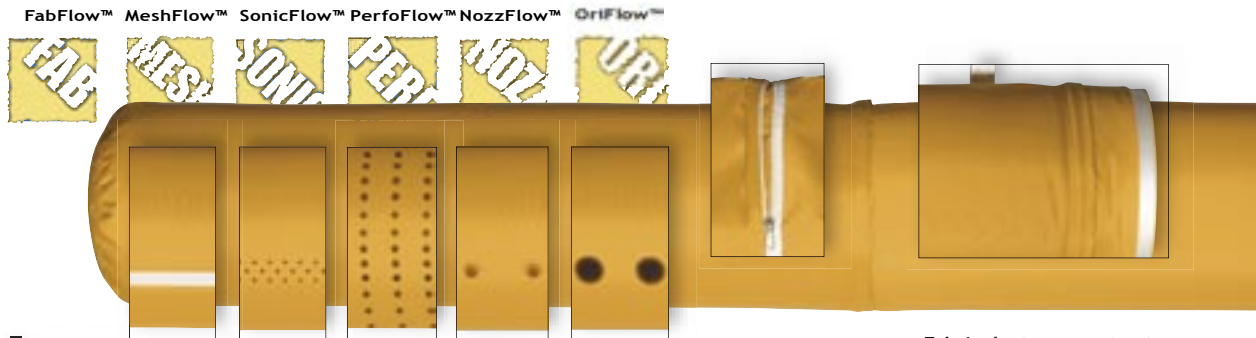
Lightweight A FabricAir duct system is much lighter than a comparable metal system. FabricAir offers state of the art, lightweight permeable and non-permeable fabrics.

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.

To ensure correct air distribution you can choose from 6 different flow technologies covering: High-, medium- or low throw.



Zipper open

Zipper closed

Fabric ducts connect onto sheet metal systems and are secured with a cinch-down duct belt.

Flow Technology

FAB FabFlow™: The low velocity gives a very high level of comfort in the occupied zone. The flow is driven by natural convection from local heat sources. This can be classified as active displacement ventilation.

PERF PerfoFlow™: The flow is similar to FabFlow™ but the air does not penetrate the fabric. The air instead leaves the duct through small holes located 360 degrees around the duct. This method has a high diffusion/mixing of the air before it enters the occupied zone. The flow can also be classified as active displacement ventilation.

MESH MeshFlow™: MeshFlow™ is a flow with a small throw of air. The air is either thrown away from the duct or has a mixing zone just beneath the duct before it drops down into the occupied zone. The flow can be classified as mixing or active displacement ventilation depending on the placement of the mesh on the duct.

SONIC SonicFlow™: This is a throw with a small to medium throw of air where the air penetrates the duct through a series of small holes located in a band in the length direction of the duct. The flow can be classified as mixing ventilation or active displacement depending on the location of the band of holes on the duct.

ORIF OriFlow™: This is throwing air through large holes on the surface of the duct. Oriflow is classified as mixing ventilation. It is only for distribution of large air volumes.

NOZZ NozzFlow™: This is a flow of a medium to long throw of air. The air penetrates the duct through small nozzles, which increase the velocity. Nozzflow™ can be classified as mixing ventilation with a very equal distribution of air. The air is being distributed with precision and flexibility by positioning the nozzles giving the air distribution a superior quality.

Types of Fabrics Available to Most Applications

FabricAir® Trevira CS This is our signature product with over 30 years of proven performance. This is a permeable product which provides a full duct surface air leakage, preventing any condensation forming on the duct even during extended cooling temperature differences in high humidity areas.



Flow Models Available
Standard Colors Available
System Shapes Available

FabricAir® Basic This is a permeable product which provides a full duct surface air leakage preventing any condensation forming on the duct even during extended cooling temperature differences in high humidity areas.



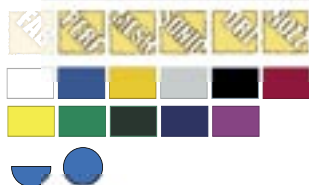
Flow Models Available
Standard Colors Available
System Shapes Available

FabricAir® Antistat Wherever static electricity is of concern in the air distribution system, FabricAir® Antistat duct products can eliminate the problem of static charge buildup from air flow. Ideal for switching stations and the electronics' industry and other sensitive applications.



Flow Models Available
Standard Colors Available
System Shapes Available

FabricAir® PUR 100 This is a coated non permeable fabric primarily developed for the heating and ventilation applications and has found other uses in the commercial and industrial business sectors.



Flow Models Available
Standard Colors Available
System Shapes Available

FabricAir® PUR 75 This is a coated non permeable fabric primarily developed for the heating and ventilation applications and has found other uses in the commercial and industrial business sectors.



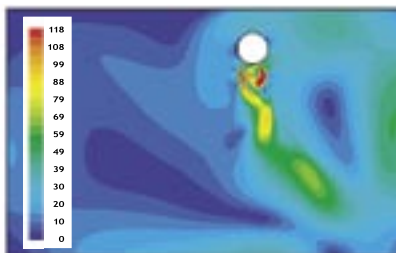
Flow Models Available
Standard Colors Available
System Shapes Available

FabricAir® Poly This is an extremely cost effective alternative to other forms of air distribution. Used mainly in industrial applications this rugged duct performs well in supplying both fresh and heated air to personnel in the work areas. Sometimes used for temporary means of ventilation.



Flow Models Available
Standard Colors Available
System Shapes Available

CFD 2D-graphic showing air velocity [fpm]. Showing one fabric duct in exhibition hall.



Engineered Air Distribution

CFD (Computational Fluid Dynamics) is the way of providing our customers (Architects, Consultants, Engineers and End Users) with the opportunity to predict and graphically show the air and temperature for any given circumstance prior to doing the actual installation allowing for changes without the cost of the changes. This service is only available from FabricAir®.



CFD graphic showing temperature gradient [°F]. Showing one fabric duct in exhibition hall.





Find suitable Fabrics

FIND SUITABLE FABRIC:

STEP 5, EXTRA STEP
Consider the suitability of the Fabric in your Application.

		Type of Throw:		Flowmodel:						
		Low	Medium	Medium	Medium	High	High			
		FabFlow™	PerfoFlow™	MeshFlow™	SonicFlow™	OrtiFlow™	NozzFlow™			
Application:										
Refrigeration	Refrigeration	●		●				●		
	Evaporative Cooling		●				●	●		
	Air Conditioning			●				●		
	Heating		●		●	●	●	●		
	Ventilation	●	●	●	●	●	●	●		
	Dehumidification		●	●	●			●		
Fabric :										
●	FabricAir® Trevira CS	●		●				●	Permeable	
●	FabricAir® Basic	●		●				●	Permeable	
●	FabricAir® Antistat			●				●	Non Permeable	
●	FabricAir® PUR 100		●	●	●	●	●	●	Non Permeable	
●	FabricAir® PUR 75		●	●	●	●	●	●	Non Permeable	
●	FabricAir® Poly						●		Non Permeable	

STEP 1
Consider type of throw.

STEP 2
Select a flow model

STEP 3
Check whether the flow model suits the application. Select another flow model if not.

STEP 4
Select an available Fabric for that flow model. Permeable or Non Permeable.



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4120-017 (2005-03/gb)

