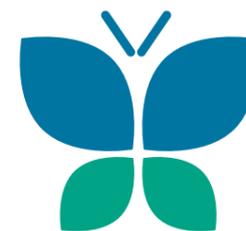




**prihoda**<sup>®</sup>  
Fabric Ducting & Diffusers



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## PRIHODA MISSION

At Prihoda we aim to provide a cracking service by quoting quickly and accurately, whilst providing a quality product at a competitive price. We provide comprehensive information to allow our customers to make informed choices about air movement, noise, system design and velocity/comfort levels. We aim to have all of our products manufactured and delivered within a 3 - 4 week window. It's our job to assist and inform, to guide and ask questions, and to ultimately ensure that - through confidence in us and our products - our customers are motivated to work with us. We are open and honest in all aspects of our business.

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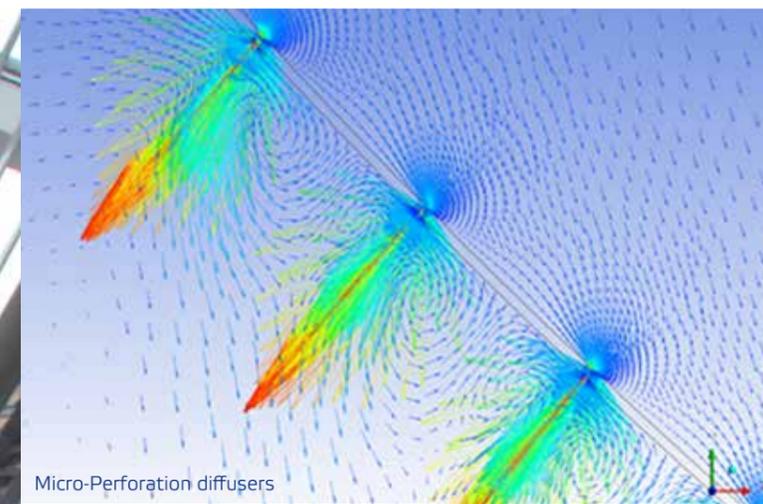
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Micro-Perforation diffusers



Prihoda Art



## MAINTENANCE

From washing to comprehensive rotational cleaning and storage...

Contact us about different options for maintaining your Fabric Ducting systems.

Prihoda  
Bespoke Fabric  
Ventilation systems  
for the UK and Ireland



# Fabric Ducting

## What is a Fabric Ducting?

Fabric Ducting is a ventilation ducting solution that is normally mounted within the room or space to be conditioned.

The ducts are made from flame retardant polyester material which inflates to a variety of shapes usually Round, Half Round, Quarter Round or Ellipse (but Rectangular and other shapes are also available). Fabric Ducts all inflate when air is introduced. Perforations are made (or nozzles added) to create the correct area of diffusion to allow the air to flow into the space as designed.

There are a few types of Fabric Ducting materials available and these are selected based upon the requirements of the application – we will generally make the appropriate material selection in discussion with you.

Fabric Ducting systems are made to order - each is unique - there are so many variables that no two designs are the same - all projects receive a Fabric Ducting system designed and manufactured specifically for that application, no compromise is needed.

## How Can Fabric Ducting Improve Air Flow?

Fabric Ducts do several things...

- (1) Transport air (from A to B).
- (2) Diffuse air into a space

Although we use Fabric Ducting as a transport system, typically it's actually doing both of these things simultaneously – Transporting AND Delivering the air into the room/space.

Air Distribution is much improved with the increased area of Fabric Ducting in a room creating a platform to supply air over a larger area than traditional grilles alone. This also helps to provide a much more controlled velocity and comfortable environment.

Through consultation with our customer we will select the most appropriate 'air diffuser' and our quotation will normally contain an air flow graphic showing the air pattern and travel distance for that specific system design.

Queen Mary University



## Is Fabric Ducting Suitable For My Application?

Fabric Ducts have to be suitable for all kinds of applications and ventilation requirements so we have to make sure that the materials are appropriate for each specific project.

We have non combustible materials, PVC coated materials, Light weight materials, materials with a high luminosity index, anti bacterial materials and a fantastic recycled material made from 100% recycled plastic water bottles. Each material has been developed by Prihoda specifically for Fabric Ducting applications and is the optimum weight, strength and quality for its purpose.



We are the most innovative Fabric Ducting Manufacturer in the world having been the first to introduce 10 year warranty and micro-perforation diffusers

## Benefits of Fabric Ducting

There are several benefits of Fabric Ventilation ducting systems over more traditional installations.

**Price** is a major factor with Fabric Ducting systems costing less than a rigid system and its associated grilles, especially if that system is insulated. Installation time is also a fraction of that for traditional systems leading to savings of over 50% in larger installations.

**Maintenance** is arguably much easier with Fabric Ducting than with traditional systems. The Fabric is removed, unzipped into sections and cleaned in a washing machine.

Traditional ducting is often never cleaned due to cost and accessibility issues.

Colours, shapes, materials and visual layout can all combine to make a pleasant aesthetic impact whilst delivering air in controlled predetermined way.

With a lower capital cost and installation time and improved maintenance options Fabric Ducting can be an effective and attractive ventilation ducting option.

**Indoor Air Quality** is much improved with a Fabric Ventilation system. The large surface area diffusing air into the room allows for much better distribution and less stagnation and stratification.



Ebbw Vale Swimming Pool

Fabric Ducting with lighting



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# Innovations

## Fabric Nozzles

We make our nozzles from the same fabric as the rest of the duct, rather than the plastic used by other manufacturers. This makes our nozzles flame retardant and the same colour as the duct, it is also impossible for them to fall off (they are sonic welded in position) and they won't create wear and friction on the surrounding material if cleaned in a washing machine. Available in a variety of sizes from 20mm upwards.

## Micro-Perforations

### Low Velocity - Accurate - Air Diffusion

Micro-perforations are an amazing innovation and allow us so much more flexibility than conventional Permeable Only Fabric Ducts. The Micro-Perforations are precisely calculated to match the system design air volume and pressure. They discourage duct blockage and therefore avoid pressure build up which leads to lower system efficiency and higher running costs.

## Extract / Return Air Ducting

Did you know we can offer an extract duct in Fabric? We use a system of suspension rails to create a rigid framework for the rectangular ducting to slide into and stop it collapsing under negative pressure. We can add the return air laser cut inlet perforations on any face of the duct, or on all faces - few large or many small perforations it's up to you. It looks good and can match the inlet Fabric Ducting system.

## Insulated Fabric Ducting

### Double Wall & Insulated for transfer ducting

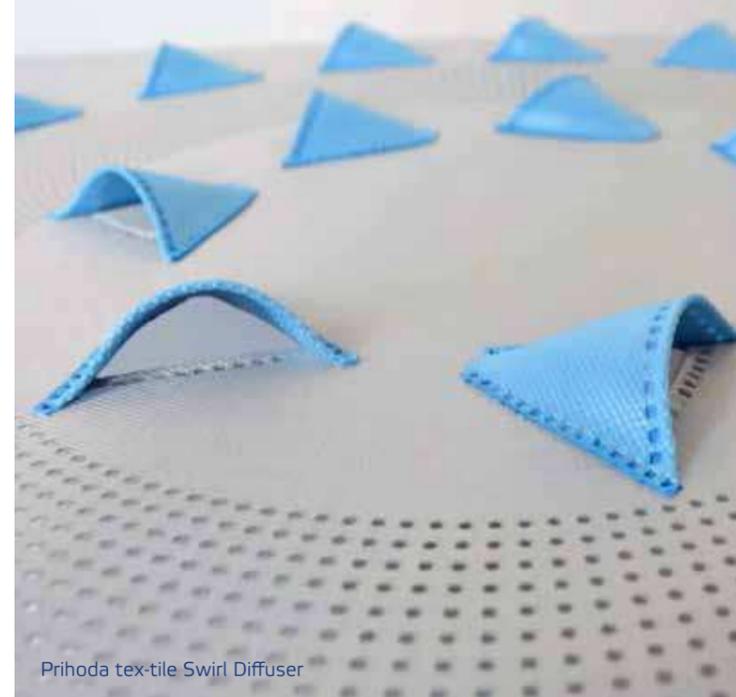
The Prihoda Insulated duct consists of Two layers of Flame Retardant Fabric which trap an insulating layer of Flame Retardant polyester fibres and allow for the use of Fabric Ducting to transport air with minimal energy loss and reduced noise.

## Recycled Material

### Fabric Ducting made from used Plastic Bottles

Prihoda Recycled Fabric Ducting is made from Polyester that has been recycled from used plastic water bottles. It is impossible to tell the difference between our recycled product and our everyday product and we re-use 13 water bottles for every m2 of material turned into Fabric Ducting.

Last year we used over 700,000m<sup>2</sup> of material which equates to an area of over 101 football fields



Prihoda tex-tile Swirl Diffuser



University of York

Prihoda Art

## Engineered Peace of Mind

All of these innovations serve a purpose. It's looking at common problems and trying to find better ways to do things that has led to the development of so many innovations at Prihoda. Micro-perforations for example solve problems with dust blocking, allowing less dense, lighter materials to be used, this in turn is more efficient using less energy to inflate. The micro-perforations also allow us to direct low velocity air, eliminating the 'dumping' of cold air from traditional Fabric Ducting systems. Everything we do is geared towards creating a better product and performance.



## Prihoda tex-tile Diffuser

### 'Drop in' Ceiling Grid Diffuser Range

The Prihoda tex-tile diffuser is designed to drop straight into a lay in grid ceiling. Available in a range of distribution options the Prihoda tex-tile diffuser is extremely light weight and comes complete with a fabric plenum box (optionally insulated), equaliser and connection clamp.

Fully washable and available in a wide range of colours the system is light enough to replace the tile removed and requires no additional support.

Available with two years warranty and easily cleanable the Prihoda tex-tile is an innovative and interesting alternative to traditional steel diffuser products - and will never suffer from condensation.

## Prihoda Art

A service in addition to our FREE choice of 9 stock colours, Prihoda Art is designed to allow designers to realise their precise requirements in terms of colour, image, logo or design. If you can provide a file size large enough we can print it onto our Fabric Ducting in beautiful detail.

It's now possible to print any Pantone, so one can lose the duct in the existing colour scheme or choose something to really make it stand out, to bring something different to a room.

The printing technology is well integrated into our production process requiring minimal additional time for delivery. Please contact us for costs.

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# Applications

## Food Processing Industry

Fabric Ducts have been used in the Food Industry for years, it still remains a big sector for Prihoda. Food facilities have large cooling requirements and the only way to get large volumes of cold air into a room without velocity is Fabric Ducting. The large surface area of Fabric Ducting in a Food Factory means that the air is delivered and distributed evenly into often, very large spaces.

We are the only manufacturer to use guaranteed, non fibre shedding, cleanroom quality material AS STANDARD.

## Cinemas, Theatres and Arenas

Cinemas and Theatres are a popular application for fabric ducting. With a large surface area and a long length of Fabric Ducting in a space it's easy to deliver lots of air at low velocity into these areas. Spectators are sensitive to wide temperature variants and draughts.

## Supermarkets, exhibition halls and large retail areas

For large retail areas we can provide supply air through laser cut perforations or nozzles, whichever suits the application best. Experience over many years shows that Fabric ducting offers a substantially better, more uniform air pattern than can be achieved with traditional systems. These large areas benefit from significant cost savings and much faster installation times than traditional rigid systems.

## Industrial Applications

Rugged and long lasting, we offer a 10 year warranty on our most popular materials. We supply Fabric Ducting to all sectors of Industry including Nuclear and Defence.

## Pharmaceutical, Cleanroom, Labs, Electronics & other critical processes

Prihoda Fabric Ducting is the perfect solution for Pharma, Cleanroom and other sensitive environments and is a significant part of our turnover already. Our materials are cleanroom ISO class 4 as standard and are available with optional anti-static and anti-bacterial protection.

We have over 15 laser cutting machines and 4 factories serving Europe with others in Asia and North America



Spot Cooling, Picking Line, Warehouse UK



Xercise4less Gym, Glasgow



Publishing House London - rectangular duct

### Our ducts ...

- Are Flame Retardant
- Are Cleanroom Quality
- ISO4 - Class 10
- Available in 9 colours
- Have a 10 year warranty



## Sports Halls and Fitness Centres

Large sports facilities are a typical application for Prihoda Fabric Ducting, we are able to create a large range of diffusion air patterns to suit any project. Whilst our many installations at sports and fitness centres provide Comfortable air movement and cooling for customers 'working out'.

## Swimming Pools

Perfect for challenging environments Prihoda Fabric Ducting is aesthetic and doesn't corrode. Because protective coatings are not required and installation times are considerably reduced, cost savings are significant. We carry considerable expertise in this sector, and deliver systems that solve a variety of common problems from stratification to window condensation.

## Offices, Commercial areas and Schools

Traditionally served by Air Conditioning cassettes or grilles, these areas are velocity sensitive. We've solved many draught issues over the years by reducing velocity and increasing air distribution through use of Fabric Ducting and Micro-Perforation technology.

Aesthetics are equally important in these areas, and by clever use of shapes, innovative layouts and colour choice (see Prihoda Art) one can create interesting aesthetic solutions.

## Temporary Installations

The benefits of using Prihoda Fabric Ducting distribution systems for cooling or heating or large scale temporary structures are significant. Weight sensitive roof structures can easily support Fabric Ducting weights of a few kilos per linear metre. Installation and removal is quick and easy and Fabric Ducting requires much less storage space. Furthermore cleaning dirty ducts is straightforward and the modular nature of the system means damage is easily repaired or zipped sections can be quickly replaced.

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