

TECHNICAL STANDARD AND TECHNOLOGY

TECHNICAL STANDARD

Our work involves a thorough knowledge of how air flows in ducts and in space. Our own laboratory enables us to precisely measure all parameters, including noise levels. We use the Fluent software for computer models, but verify these computations using tests in real conditions. For customers we are able to simulate air flow in a room and suggest an adequate product. Our know-how and years of experience mean that we can put hundreds of technical details together to make a whole in order to achieve the very best result.

TECHNOLOGY AND FABRICS

Like sheet steel you wouldn't buy a heavier gauge more expensive material than you need to do a good job. Prihoda Fabric has a 10 year warranty and is cleanroom quality, strong and flame retardant. It's been developed and optimised over many years. But the Fabric is only part of the end product, and the technology used to create the Fabric Duct is more important. The strength of the sewn joints, the accuracy of the laser machines, the method of permanent nozzle fixing, the quality of the ancillary materials, these are some of the details, the methods, the know-how, that go to make Prihoda Fabric Ducts.



WHY FABRIC DUCTS?

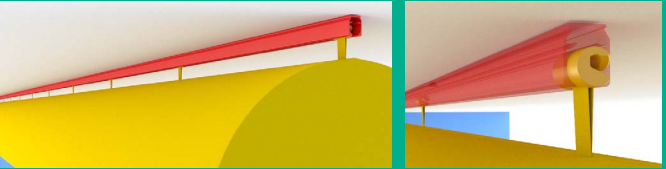
Cleanliness without compromise

This is the only duct system that can be perfectly (!) cleaned. By machine-washing, with the option to add disinfectant.



Fastest to install

Only 20 % of the time needed for a sheet-metal line!



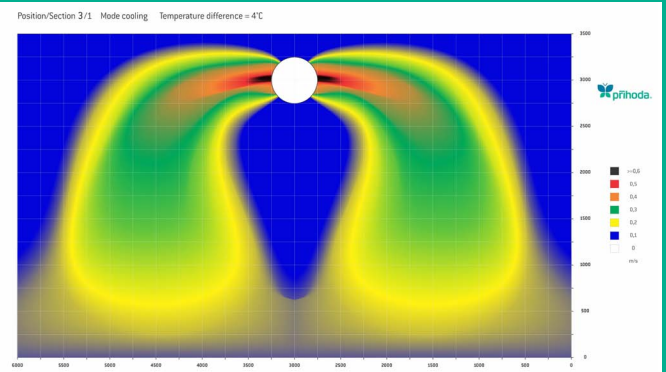
Customisable look

Available in any colour or with graphics makes this product more than a mere duct.



The air flow you need

There is practically no form of air distribution that we cannot achieve.



Saving on your investment

Traditional diffusers are not needed on our ducts; our products already include custom-made distribution elements, insulation and noise dampers.

Low weight

Less than 5 % of the weight of sheet metal!

Long lifetime

No risk of material corroding or otherwise deteriorating.

More Intelligence in Air Distribution!

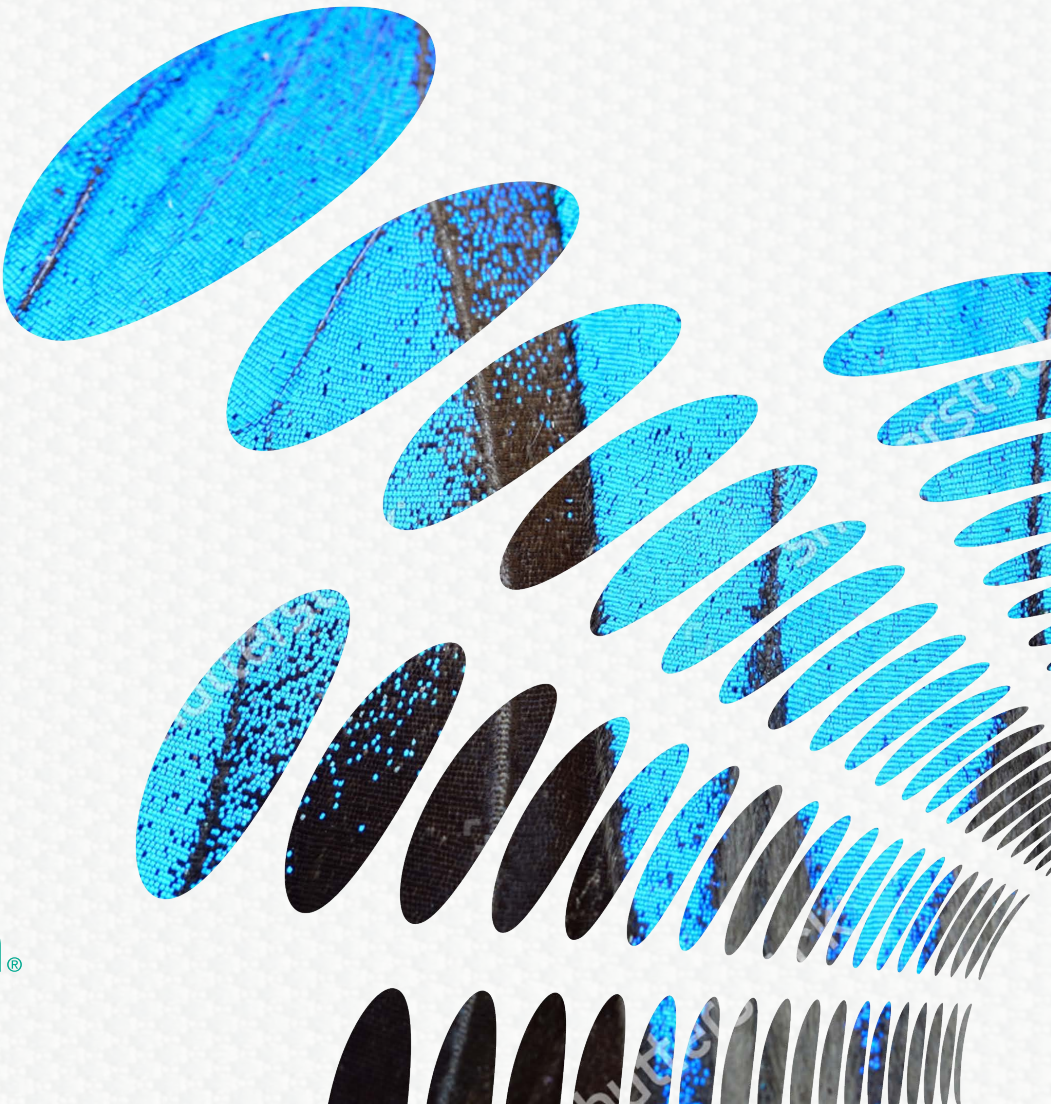


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Tailor-made Air Ducting&Diffusers

FABRIC DUCTING&DIFFUSERS

English version



ABOUT US

We are a medium-sized, 100% Czech firm which fully specialises in the production of fabric ducts and diffusers for the transport and distribution of air. We do not make ducts in metres, but provide solutions tailored to suit the customer. From discussing the options through the necessary calculations to actually manufacturing and delivering the product.

OUR STRENGTHS

An extensive portfolio and global presence

There is virtually no equipment or technical solution in fabric systems for the transport and distribution of air that we do not manufacture. Our products are supplied through a network of authorised, trained representatives who cover almost the entire globe.

Innovation

We have put a number of completely new solutions onto the market and own several patents. A summary of the basic patents can be found later in this brochure. However, these are only a few; many more are described in more detailed technical documentation. Most of the materials (fabrics) and components we use have been developed by our specialists or developed to order for us. We welcome feedback from our customers, as we see this as an opportunity to improve our services and perfect our products.

Reliability and precision

In 2015, for example, we supplied roughly 5700 orders to more than 60 countries around the world. 99 % of these deliveries were dispatched by the confirmed deadline, generally within 2 to 3 weeks. In order to streamline communication with our customers we have developed our own Air Tailor software which enables orders to be specified down to the finest detail. This also helps us organise production and share information inside the firm. Every step in the order flow is carefully described and controlled.



Zdenek Prihoda, founder and company director



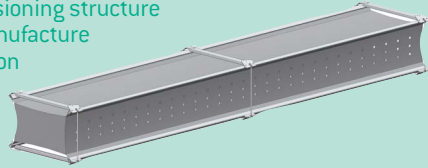
OUR ORIGINAL SOLUTIONS

We have been the first to market a number of technical innovations and improvements. We hold a series of patents (designated below as PP = "Prihoda Patent") and in many of the cases described below we are still the only firm to supply this equipment.

PP

NEGATIVE PRESSURE (EXTRACT) DUCTING

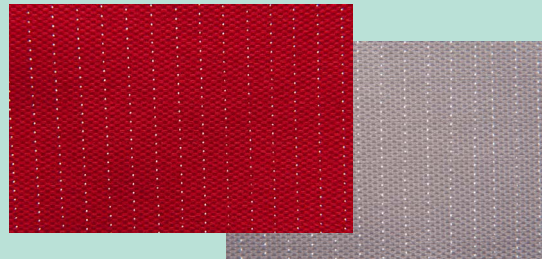
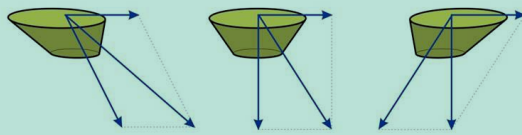
Our patented tensioning structure enables us to manufacture rectangular-section ducts which can also be used for extraction.



PP

MICROPERFORATION

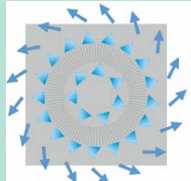
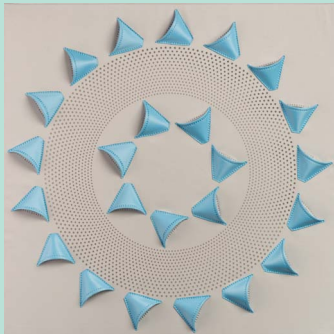
Directional holes with a diameter less than the thickness of the fabric are a design patented by Příhoda s.r.o. They provide a number of advantages when used for surface air supply at low speed.



PP

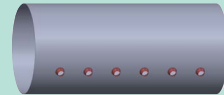
SQUAIRETEX®

Flat diffusers into false ceilings do not have to be made of sheet metal; our SquAirTex range is a fully-fledged alternative.



FABRIC NOZZLES

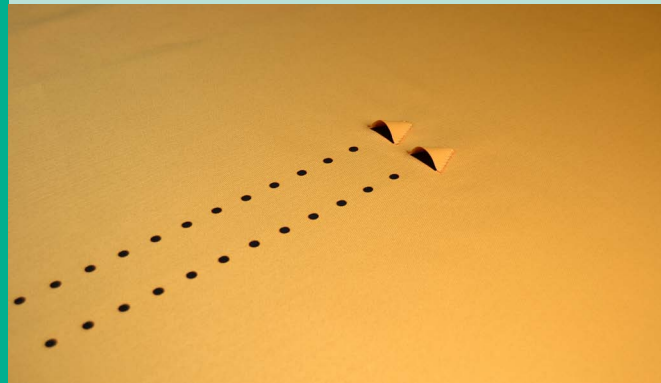
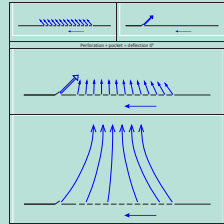
Ultrasound-connected nozzles 20 to 40 mm in diameter are a great way of achieving greater flow range. Compared to plastic nozzles they are significantly more fire resistant and stay on the duct better.



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POCKETS

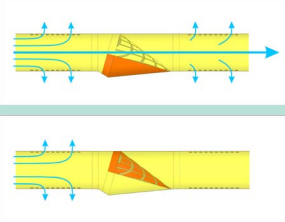
Used to straighten out an inclined outflow from perforated fabric and prevent air flow from spreading along the ducts.



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FABRIC SHUTTER

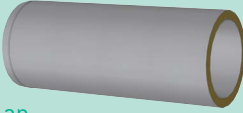
The first fabric shutter on the market is used to temporarily close off a branch or part of a duct.



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INSULATED AND DOUBLE DUCTS, NOISE DAMPERS

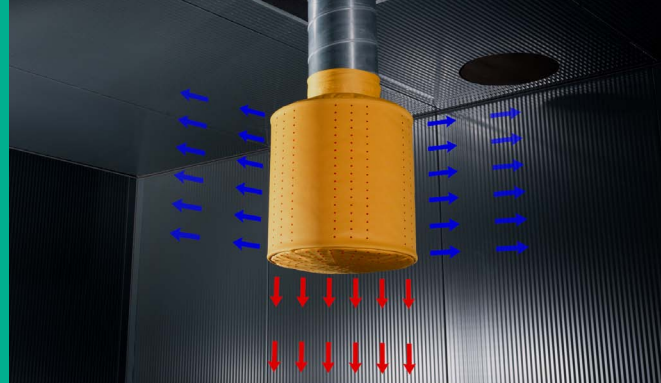
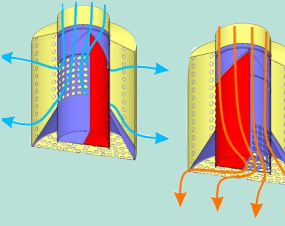
To prevent condensation from forming on the surface of the duct and to cut heat or cooling loss, we manufacture ducts that are either insulated or double with an intermediate layer of air. Insulated ducts are also effective noise dampers.



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LANTERN WITH MEMBRANE

This space-saving large volume diffuser enables air to be supplied horizontally or vertically down depending on the position of the internal membrane.



FABRIC COLOUR MODIFICATIONS

Our own colouring and printing technology enables us to supply fabric in any colour or to print it with the graphics of your choice, all by the standard delivery deadline.

