

# EXANDAIR

TEXTILE AIR DUCT



## TEXTILE AIRDUCKT, SHORT MANUAL



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### Where can I use the textile airduct?

Almost in all places where air blow constitutes the task. Moreover our system stands the proof also under industrial circumstances where dust or other contaminated content may be found. For instance it can be used perfectly on production lines for cooling as it has low air speed and enables more efficient air distribution.

### To what extent can I customize it according to my own requirements?

While keeping certain technical frames, our textile airduct systems can be flexibly changed, considering the perforation, the diameter, the installation height and the colours too which are visible from the side.

### We don't want to see black or silvery proofing on the ceiling as it spoils image of my showroom. What is the solution on this point?

Our systems have been developed just for relieving of the conventionally insulated airduct systems which are able to perform the task but which can be regarded as aesthetic not at all. On the contrary, our textile airducts have great choice of colours, while providing for perfect visual experience, either saloon, shopping centre, restaurant or industrial halls are mentioned.

### Should it be dimensioned?

For proper working of the textile airducts a good selection of the diameter, the height and the perforation is essential. So we can assure that the textile airduct works optimally. The length of textile airducts is determined by dimensions of the room in which the textile system would be installed. Among others, our designing reference book can also help you.

### To what extent can the design be described as complicated?

The above-mentioned designing reference book can give a good starting point but the precise size of the installation site, the features of the rear air delivery systems are also required for an accurate design. It should be established in advance that what will be the task of the textile airduct system (cooling and/or heating). We undertake also the planning of complete systems, if required!

### Is my roof able to carry it?

An other advantage of use of the textile systems is that the roofing does not support any surplus load, so any reinforcement is not needed as in case of metal ventilation units. Owing to their material features the textile airducts are lighter by orders of magnitude than a similar spiral folded ventilation system.

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### What is going on when the system stops?

At that moment when the system stops, the air flow in the textile airduct comes to the end, and hence the textile airduct becomes deflated. On demand, textile airducts reinforced with metal rings can also be produced, by means of which it can hardly be made a distinction between active and inactive systems as the textile airduct, because of the metal rings, can keep its form even if the system is turned off.

### How can I insulate it against condensation?

Our textile airducts do not require any insulation as, due to their design, our products are working free from condensation.

### My colleagues complain that they sit at draught in the office. Is there any solution?

As a result of the careful design of the textile airduct systems maximal draught-free comfort can be attained. The air flow divided better along the duct length is able to resolve the cooling or heating at lower air speed. Using a software developed to this task the layout, the dimensions and the quantity of various perforations are determined, ensuring the highest possible efficiency. The so developed system can correspond with the Common SzCsM-EÜM Decree no. 3/2002 [II.8.], and this determines the minimum level of the requirements formulated for labour safety in the workplaces.

### How should it be maintained?

Compared to the metal elements the third advantage of textile airducts is that their maintenance do not require special preparation. Their material can be easily cleaned as the industrial wash-machine is applicable to this and it can be dried easily. Our company undertakes to maintain any textile airduct system other parties delivered!

### How big truck is needed for transport of the material of textile airduct to be used for a hall of many thousand square metres?

This depends also on the features of the system we selected. At our ducts delivered with rail suspension the length of one profile is 3 metres. The accessories are packaged in separate box whose dimension is 60×60×60 centimetres while the ducts are packaged in boxes of 80 x 60 x 50 centimetres. After an order we compile an itemized list prior to the take-over in order that the packaging sizes of the system to be ordered would be known.

On demand, our company undertakes also a delivery to the site so that you have no any things to be done.



### What console is needed for it?

As regards the suspensions of textile airducts, between rail and cable systems should be distinguished. Selection of the proper suspension depends on both the diameter and the length of the textile airduct. There is a length which can be executed with cable suspension no more, and we know places where just the cable option is more aesthetic. Over a certain diameter already a double suspension should be calculated, that is, the textile airduct system is suspended not in the middle but on both sides to the end. The shape of the airduct system to be selected is also important as the quarter-circle ducts are sold only with rails which can be connected to ceiling or to wall.

### Is any extra specialist needed for the installation?

Generally it can be said that one of the greatest advantage of the textile airducts is the simple assembly. Either rail or cable suspension is considered, the installation does not require special know-how. Nevertheless our textile airduct systems helps you with a complete mounting documentation, and we can help with the execution, if required.

### The fire department has limited quantity of the usable combustible materials in our factory. Is there any solution for this?

Our textile airducts are produced with three kinds of materials, as the customer requires. For most general use we recommend the standard, not fire-resistant material. If the fire-resistance should be prioritised and the standard material can not be used in the room to be installed so any other material can be selected which participates in fire only restricted or which is combustible not at all. Obviously the fire-resistance classes are determined according to EU standards and a certificate of fire-resistance is also enclosed.

### Is any adjustment needed as in case of the conventional ventilation engineering?

For proper working of the textile airducts the selection of good diameter, height and perforation is essential. So we can guarantee that the textile airduct would work optimally. The length of the textile airducts are determined by the dimensions of the room in which the textile system would be installed. By the way our designing reference book can help you also in this case.

### Can the textile airducts be used as air extractor?

These systems can not be used as air extractor. Main task of our textile systems is delivery of air with right temperature and speed to the areas the customer demanded, namely to cooling or heating, zone cooling.

Have you any question? Please, click on the [link](#) below! Our colleagues will establish contact with you!