

TEXTILE AIR DISTRIBUTION
SYSTEMS



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TexAir

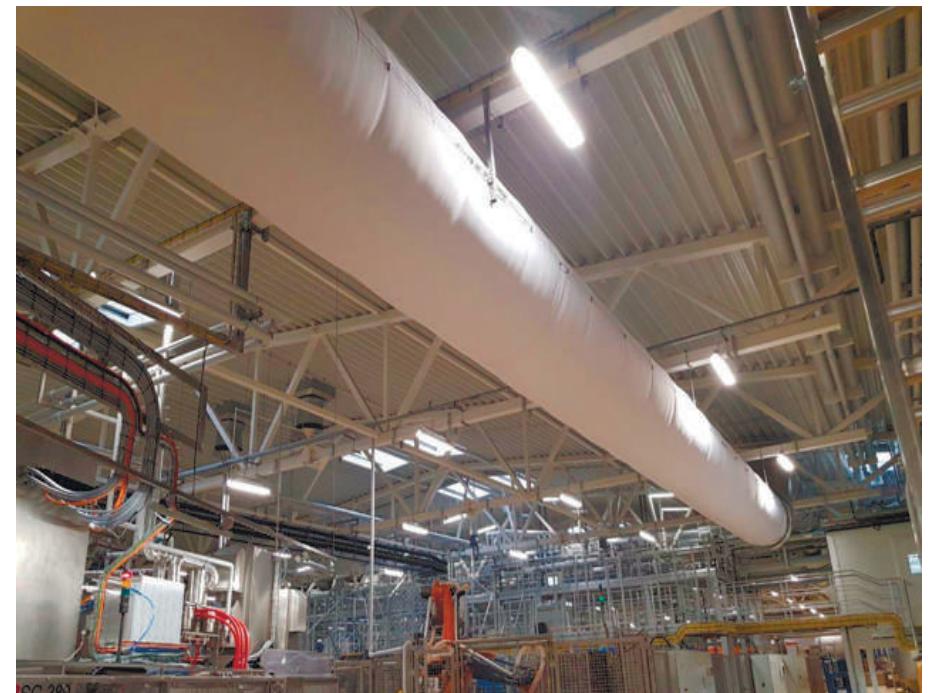
ABOUT THE COMPANY

The Baltic TexAir Company specializes in the production of air distribution textile systems (textile ventilations) for all types of air heating, ventilation, and conditioning (HVAC).

The use of cutting-edge production technology combined with our extensive experience operating in the HVAC sphere (Heating, Ventilation, and Air Conditioning) has provided us a means to manufacture high-quality products. We also are constantly striving to improve our textile duct systems and integrate ever newer front-running technical solutions into our manufacturing process.

With a laboratory equipped with high-precision control equipment at our disposal, we are studying the distribution of air flow under various conditions and modes of air distributor operation. Meanwhile, particular characteristics of materials are taken into account, such as air flow placement, means of air distribution, air flow remoteness, temperature difference, and other parameters. Based on the calculations we've obtained, we design the optimal air duct system for the customer that will allow us to achieve the air exchange system that the facilities require. As a result of these air socks, TexAir achieves a unified air distribution system.

Having our own engineer-technician base, high-tech production, modern equipment, and laser machines provides us the basis to offer European-quality products at a lower price.



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TexAir Air Ducts

PRIMARY FEATURES

FACILITY VENTILATION

no draft, even under very high-intensity air change (in which case air is distributed via air-permemeable or microperforated fabric)

HIGH LEVEL OF MIXING

of the supplied air with the air in the facility (in the case that air is distributed via a huge number of small holes)

WASHABLE

in any industrial washing machine for maintaining the necessary cleanliness level (even disinfection is an option)

ORIGINAL APPEARANCE

the ability to choose the desired color (company style)

COST-EFFECTIVE

when it comes to tasks such as totaling up the cost of the air ducts, installation, transportation, and finishing works, customers spend 1.5 to 3 times less

NO RISK OF CONDENSATE FORMATION

on the surface of the air distribution system (in the case that air-permeable fabric is used)

QUICK INSTALLATION AND DISASSEMBLY

LIGHT-WEIGHT SYSTEM

NOISELESS DURING OPERATION

NO AIR DUCT CORROSION

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TexAir Air Ducts

MAIN ADVANTAGES



CHEMICAL AND CORROSION RESISTANT

To manufacture its air ducts, TexAir uses materials that are resistant to chemicals and reactionless to most components floating around in the air environment. Meanwhile, for utilization in aggressive environments, under which equipment demands higher requirements for the characteristics of the materials, TexAir utilizes special fabrics. For instance, material out of 100% polyester with no admixtures or additives exhibits sufficient resistance to such substances as synthetic hydrochloric acid B1 sort, c.p. sulfuric acid and ammonium chloride, which allows it to be used in ventilation systems in facilities for microcircuitry production. The type of production facilities we have also allow us to manufacture material for air ducts, or apply a special coating with a particular set of features. That is how the chemical aspects of an aggressive environment can be taken into account and handled for a specific company. This allows the customer to get a system of air ducts tailored specifically for his particular facility, regardless of the standard solutions that the market imposes.



NEUTRAL TOWARD MAGNETIC AND ELECTRIC FIELDS

One of the features of antistatic fabric is the pressure of an electrostatic charge created from the friction of particles in the air, since air duct materials are mostly dielectric, carbonic-thread fabrics used in order to remove the static charge from the air duct. This allows the customer to use such air ducts in facilities with additional explosion protection requirements.



NON-FLAMMABLE

The company places a large emphasis on developing and integrating new types of fabrics with different properties. For instance, an elastic fire-proof material with a special silicon coating. It can withstand the influence of temperatures of up to 380° C and can be used in air ducts in facilities with special requirements. Correspondingly, the characteristics of this material surpass the requirements stated for materials belonging to fire safety categories G1 and B1, so the air ducts do not require any additional fire safety protection measures on the customer's part.



ANTIBACTERIAL PROPERTIES

The antibacterial effect is achieved by way of adding special properties to the fabric by including special threats within the material (bacteriostatic or bactericide). The content of the antibacterial threads ranges from 5% to 99% of the total fabric volume and they may entail such components as triclosan, pure silver, silver ions, silver zeolites (non-organic ceramic-based silver), copper oxides, and inorganic bonds of silver and zinc. The use of such materials provides a means to extend the fabric diffuser's usage cycles between operations.



INSTALLATION FLEXIBILITY

TexAir offers a broad selection of various standard sizes and geometric shapes for air ducts. For instance, semi-circular, segment, or sector-shaped air ducts are used for facilities with a low ceiling height, where it is impossible to station any kind of systems. Such a diversity provides the opportunity to choose the most convenient, economical option for the shape and air duct location, regardless of the features of the facility.



TEMPERATURE RANGE: FROM -50° C TO 380° C

TexAir has materials at its disposal with different consumer properties. Since the specifics of using air socks may vary greatly, each type of fabrics used comes with its own temperature range. This allows you to avoid overpaying for a universal option, but instead select the most suitable solution for your facility.



LIGHT-WEIGHT

Air socks are a fraction of the weight that metallic air ducts are. The maximum density of the material is about 600 g/m², so the average weight of a linear meter of air sock is usually no more than a kilogram. This allows them to be fastened to self-supporting constructions, which would be unallowable for traditional systems. Thus, the use of air socks entails a fully-featured ventilation system in any facility without putting any kind of restrictions on the customer.



TexAir Air Ducts

MAIN ADVANTAGES



ENVIRONMENT-FRIENDLY

The air ducts have a smooth inner surface ensuring low losses from friction on the walls, which impedes the deposit of contaminations during operation. The materials used in production are hygienically certified, tested, and approved, do not cause allergic reactions, and thus are completely safe and suitable for use at various facilities. This allows air socks to be used more and more in fields where previously metal ducts were used by default.



SAVINGS

TexAir air socks provide a basis to efficiently distribute air without necessitating additional costly distribution devices. Furthermore, the simplicity of installation and the lower cost of the materials and components compared to zinc-coated air ducts offers significant savings for a company's budget. While folded up in the package they have much smaller dimensions, which allows companies to reduce logistics expenses. Many elements are not required for textile air ducts that traditional systems require, in particular: air distribution elements (diffusers, anemostats, grids, etc.), sound mufflers, numerous fastening and connecting elements, and fixtures.



CONVENIENT ASSEMBLY-DISASSEMBLY AND EASY INSTALLATION

One of the main advantages of air socks is the convenience of assembling them. In this regard, cost saving may reach as high as 90% compared to traditional metallic systems. Meanwhile, keeping in account that any ventilation system must be serviced and periodically cleaned, the ease of disassembly and subsequent installation gives fabric air ducts an unquestionable advantage over zinc-coated air ducts.



EASY TO REPAIR

In TexAir textile air ducts, any part is easy to replace. This is achieved by simply connecting parts using zipper closures. If all the sudden, for any reason a company needs to replace a part of an air duct, he can easily do so in-house without any need to hire an installation company.



COMPATIBILITY

Easily connected to metallic air ducts to form a unified, combined system. An adjoining part is provided for assembly to the supply line on the air duct, which can be used to connect the textile system to an outlet of any shape and configuration.



BALANCE

Air ducts do not require additional air expenditure balancing. The customer is supplied a fully ready air distribution system balanced in expenditure and pressure.



LENGTHY SERVICE LIFE: 10 YEARS OR MORE

Fabric air ducts are produced out of certified materials characterized by a higher level of durability and wear-resistance. The air ducts withstand a large number of wash cycles in a washing machine. If the operation rules are properly observed, the service life of the air socks is over 10 years. However, taking into account the fact that due to expenses companies try to clean traditional systems as seldom as possible, air socks are the most preferable option even from an operation perspective.

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TexAir Air Ducts

AREAS OF USE

SPORTS VENUES

The specifics of sports venue ventilation entail that they are often used to conduct classes with an intense physical workload, which may be categorized as heavy physical exercise; meanwhile, this in turn requires a particular approach to the ventilation system design. Textile air ducts allow companies to ensure the necessary air mobility in health and fitness facilities and evenly distribute the air along the entire volume of the sports hall to prevent any stagnant zones.



OFFICE FACILITIES

Air socks, unlike metal air ducts, come in a much greater variety of colors and shapes, which allows them to be used in office facilities where appearance requirements often come first in importance. The features of air ducts' material allow various images to be printed on them. In the case companies choose TexAir textile air ducts, even the ventilation system can be styled in the company color and feature the Customer's logo



FOOD INDUSTRY

In the food industry, the main requirements imposed for ventilation systems are sanitary and hygienic requirements. Thus, ventilation systems must be easy to clean. Air socks easily satisfy these requirements since they can be washed in washing machines. The use of antibacterial fabrics helps avoid the multiplication of germs on the walls of the air ducts.



TexAir Air Ducts

AREAS OF USE

PRODUCTION

texAir air socks are also used at various industrial sites, each of which having its own characteristic features. There are many heat flows at many companies connected to technological processes. The use of air socks allows additional air flows to be directed into these zones to compensate for the heat flows. The TexAir-S software application helps calculate these precisely.



GREENHOUSE FACILITIES

The development of greenhouse facilities is currently undergoing a new stage of growth. Facilitating this is not only the constant growth in demand for fresh fruits and vegetables, but also the advent of new technologies for constructing similar objects and microclimate solutions in greenhouse facilities. One of such novelties is the use of air socks in greenhouse air heating systems. Air ducts are usually placed in the lower section of a greenhouse in order to ensure that the heat passes to the plants. Air socks can also be used for even carbon dioxide supply for fertilizing cultivated cultures.



FLOWER STORAGE

Every flower business owner has to account for the storage of his flowers, which requires him to have a cooler room. It gives the flowers a chance to remain in the most comfortable conditions possible for them. However, simply having a cooling room does not guarantee that flowers are well-preserved, since a strong flow of cooled air can actually excessively dry the plant. Air socks help distribute flows of cold air evenly and at a low speed, which creates the most comfortable possible conditions for flowers and helps their appearance preserve for a long time.



TexAir Air Ducts

AREAS OF USE

REFRIGERATING CHAMBERS

Keeping products at food production sites refrigerated is a very important part of the production process. Most often the products are refrigerated after prepackaging or heat processing. As a rule, food product refrigerating chambers are compact in size but are filled with a large quantity of products. For this reason, air socks are often used to ensure even the supply of cold into all sections of the chamber. This solution helps ensure an identical, consecutive cooling or freezing regimen for products located at any distance away from the air cooler.



MALLS

One of the main requirements imposed on malls is extra high fire safety requirements. For that purpose, TexAir can offer air ducts made of materials resistant to burning. Air ducts can be manufactured out of different color materials, which is an undoubted advantage over traditional systems. Meanwhile, the ability to distribute air around all the zones is particularly beneficial at locations that include, for instance: grocery cooling sections.



WAREHOUSE COMPLEXES

Warehouse complexes usually stand apart from other facilities with their large area and high ceilings. Air heating is currently one of the most effective solutions for facilities such as these. Meanwhile, textile air ducts suit them wonderfully. They help ensure the necessary air speed in the work zone despite the significant installation height. Even air distribution ensures a constant temperature, which is a necessary condition for storing various types of products.



TexAir Air Ducts

INSTALLATION

TexAir textile air ducts are supplied packaged with the necessary installation accessories. On the Russian market, 4 types of air sock installation are available to the consumer:



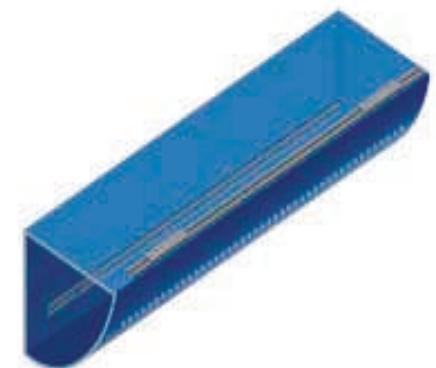
**AIR DUCT INSTALLATION
ON A SINGLE CABLE**



**AIR DUCT INSTALLATION
ON TWO CABLES**



**AIR DUCT INSTALLATION
ON TWO SUSPENSION
PROFILES***



**AIR DUCT INSTALLATION ON
A CEILING OR WALL PROFILE***

Easy air duct installation using a minimal amount of tools offers an advantage over metallic air ducts and renders their installation quick and easy.

*using the materials of the customer's choice: plastic, aluminum, stainless steel

TexAir Air Ducts

MAINTENANCE AND GUARANTEE

SERVICE LIFE AND MANUFACTURER GUARANTEE

The service life of air socks directly depends on the type of fabric, the conditions of operation, and whether the producer's requirements are observed and may last over 15 years.

Having air filters in the ventilation systems is a required condition for the guarantee.

The materials Tex-Lti, Tex-Sti, and Tex-Stop are guaranteed for 10 years by the producer.

The producer provides a 3-year guarantee on materials with a glass or silicic foundation, or with special coatings available, such as Tex-StpF, Tex-StAb, Tex-Fpu, or Tex-Fsi.

A one-year guarantee is provided on furniture and attachment elements.

The document providing the guarantee is the product certificate. Based on the technical conditions TU

13.20.20.190-001-11517781-2016, the "Textile air ducts" correspond to the norms and rules of the government health and disease control. The producer guarantees that the established parameters for the ware's operation modes and the reliability figures are ensured under the condition that the Customer observes the engineering factors over the entire course of its operation.

In the case that production defects are identified in the ware or parts of it by fault of the manufacturer factory during the guarantee period, the latter shall oblige to eliminate the defects or replace the failed components within the shortest technically possible time period at its own expense.

SOCK SERVICING

Aggressive environments and frequent washing reduce the ware's service life. The manufacturer factory does not impose any special requirements regarding the frequency for washing wares and leaves that requirement at the discretion of the organization using it for operation and the corresponding regulation of the institution where this product will be used. Textile air duct cleaning can be performed by hand or in a washing machine in according with the following directions: Washing must be performed using not particularly harsh washing or disinfection remedies at a temperature of no more than 45° C for a duration of 15 minutes.

Drying at room temperature depends on the type of fabric and should not go on for more than 3-4 hours.



DRYING AT A 45° C TEMPERATURE



TUMBLE DRYING IN PARTIAL EXECUTION MODE



IRONING PROHIBITED



WHITENING PROHIBITED



CHEMICAL CLEANING PROHIBITED



COMPLETE PACKAGE

The air duct delivery package includes:

Air flow equalizers (conic net at the inlet for air dispersion);

Inlet adapters for connecting textile channels; Suspension holders on a cable or profile (attached to air duct surface);

Required prepackaged elements;

Specification documents package (engineering drafts, specification, installation scheme, datasheet)

PACKAGING

The package is produced according to the manufacturer-producer's documentation and ensures that the integrity of the air ducts is preserved during transportation in covered transportation vehicles of any type.

Air duct packaging is performed in an indoor ventilated facility with a surrounding air temperature of between 15 and 35° C with a relative humidity of up to 80%, assuming there are no aggressive admixtures in the environment.

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TexAir Air Ducts

OUR OBJECTS

MILLING FACTORY



FOOD STUFFS PRE-PACKAGING FACTORY



MEAT PROCESSING FACTORY



TexAir Air Ducts

OUR OBJECTS

NESTLE FACTORY



PRECIOUS METAL PROCESSING FACTORY



OFFICE CENTRE



TexAir Air Ducts

OUR OBJECTS REFERENCE LIST

YEAR	OBJECT	SECTOR
2019	Milk factory	Food production
2019	Replacement of damaged air ducts	Large tents and hall systems
2019	"Danone" factory. Packaging room.	Food production
2019	Canteen air heating	Catering
2019	Clean room for bonding printed circuit boards	Clean facility
2019	"NESTLE"	Food production
2019	Milk factory	Food production
2019	Candy factory	Food production
2018	Cooler room	Food production
2018	Canopy frame construction	Exhibition halls
2018	Cheese packing area	Food production
2018	Fruit storage warehouse	Warehouse complex
2018	"Mars" chocolate factory	Food production
2018	Finished products warehouse	Warehouse complex
2018	Cooler room	Food production
2018	Meat processing combine	Food production
2018	Cooler room	Food production
2018	Bread-baking complex	Food production

TexAir Air Ducts

OUR OBJECTS REFERENCE LIST

YEAR	OBJECT	SECTOR
2018	"NESTLE"	Food production
2018	Cheese manufacture factory	Food production
2018	Macaroni factory "BARILLA"	Food production
2018	Cooler room	Food production
2018	Meat-processing factory	Food production
2018	Cooler room	Food production
2018	Meat-processing factory	Food production
2018	Bread factory	Food production
2017	Exotic fruits and vegetables packaging and storage	Warehouse complex
2017	"Nestle" factory. Packaging room (2nd turn)	Food production
2017	Modern Art Museum	Exhibition halls
2017	Cooler room	Food production
2017	Greenhouse complex	Greenhouse business
2017	Dairy factory	Food production
2017	Calf house	Animal husbandry
2017	Vegetable storage warehouse	Warehouse complex
2017	Finished product shipping warehouse	Food production

TexAir Air Ducts

OUR OBJECTS REFERENCE LIST

YEAR	OBJECT	SECTOR
2017	"BOSCH" powder coating factory chamber	Production facility
2017	Mall ventilation	Mall
2017	Cheese manufacture	Food production
2017	Air ducts for office ventilation	Office facility
2017	Dairy production	Food production
2017	Vegetable storage warehouse	Warehouse complexes
2017	Precision metal processing factory	Production facility
2017	Office center	Office facility
2017	Gym	Sports complex
2017	Meat processing factory	Food production
2017	Meat processing factory	Food production
2017	"Nestle" factory. Packaging room	Food production
2017	Flower room	Fresh-cut flowers and storage
2017	Gym	Sports complex
2016	Meat processing factory	Food production
2016	Food stuff prepackaging factory	Food production
2016	Production facility	Woodworking industry
2016	Fish packaging factory	Food production

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