

## InTex monitors indoor climate and energy consumption



### Healthy indoor climate and energy-savings

DMRI believes in the importance of maintaining a healthy indoor climate. In their new sensory laboratory in Taastrup they have installed textile ducts for even distribution of fresh air which ensure effective hygiene and an improved well-being. DMRI provides consultancy to companies in the food industry, among other things regarding ventilation, and the recommendation is to regularly clean your ventilation system to maintain a healthy indoor climate and to save energy.



### Automatic monitoring of air pressure and temperature

DMRI follows their own recommendations in their laboratory, and they have chosen the InTex solution from KE Fibertec to monitor the air pressure and the temperature in the ventilation duct. By establishing automatic monitoring of the operation they know exactly when to wash the textile ducts. In this way the velocity of air and the temperature gradient will stay at the same level as dimensioned, as the air distribution is constantly optimal.



#### Alarm function reveals dirty textile duct

The InTex sensor is fitted at the bottom of the duct, continuously communicating with the master unit that is installed centrally in the building.

When for instance the air pressure reaches a certain level it will automatically generate an e-mail notifying of the need to wash the textile duct.

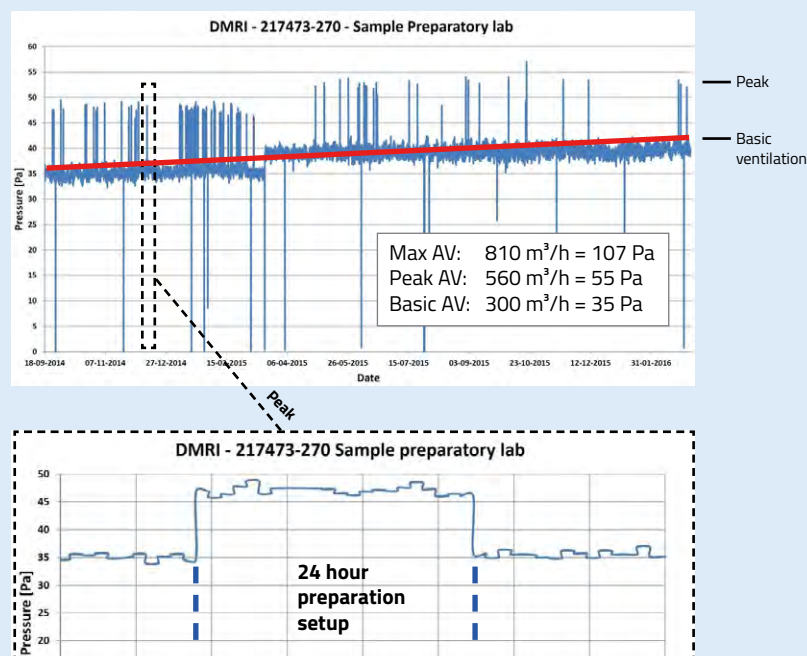


### Air pressure releases alarm

At DMRI, Danish Technological Institute 6 sensors and 2 master units in total have been installed throughout the building.

Measurements from the laboratory show a steadily increasing basic ventilation, and in this period the pressure rises several times. During a 24 hour test a fume cupboard was being operated which caused a need for more air distributed in the entire room.

The movements can be read off the chart below. The pressure peaks after 24 hours and then drops back down to basic level.



//

Textile duct cooling is a good solution both for employees and products, and it is a very popular type of ventilation in the food industry. We always recommend regular maintenance of the ventilation system and the use of a monitoring system to inform when it is time to wash.

**Senior Consultant Jens Scheller Andersen**  
**DMRI, Danish Technological Institute**

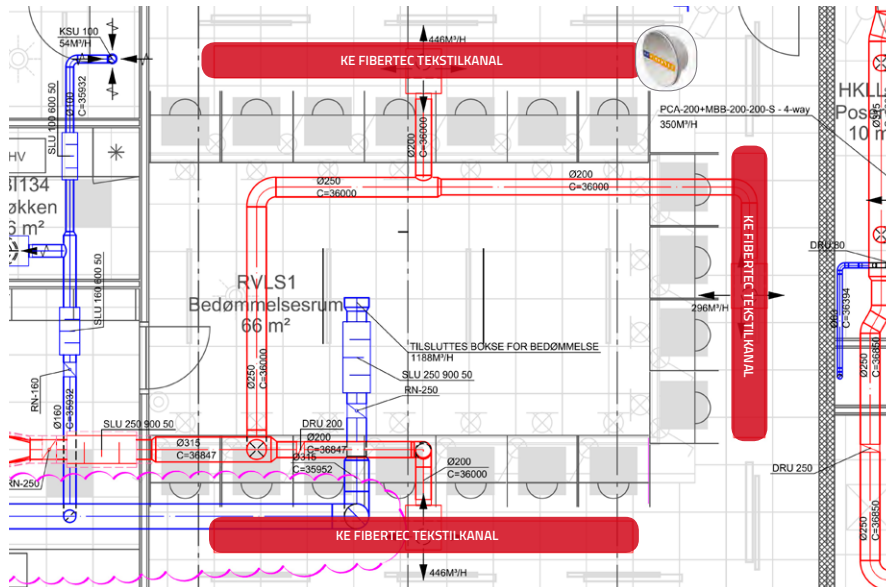
The InTex program allows you to define a certain air pressure that will release the alarm and when to release it.

The built-in intelligence automatically filters out the peak period so that the alert e-mail is based on measurements from the basic ventilation.

DMRI has fixed an alarm level of 70 Pa, however, the electrician is not warned until the basic ventilation over a period of five days has registered a raised pressure.







KE Fibertec AS is market leader in Textile Based Ventilation. We create good indoor climate with our tailored textile ducts for installation in sports arenas, offices, laboratories, schools etc.

Textile ducts are customizable, easy to install, washable, hygienic, and come in all shapes and colours.

For more information please visit our website: [www.ke-fibertec.com](http://www.ke-fibertec.com).

For more information please contact:

**KE Fibertec AS**  
 Tel. + 45 75 36 42 00  
[info@ke-fibertec.dk](mailto:info@ke-fibertec.dk)  
[www.ke-fibertec.com](http://www.ke-fibertec.com)