

## Case: Guldfågeln Arena, Sweden

### New Textile Based Ventilation system in Guldfågeln Arena



In Kalmar (Sweden) the Kalmar FF football fans and sponsors can stay cool regardless of the results on the football field.

The stadium was recently built and in that connection a ventilation system was installed.



Textile ducts with nozzles and laser cut holes

The 85 metre long Inject Hybrid textile duct (Ø1000mm) passes through the lounge and restaurant to the toilets.

The duct is divided into different sections where nozzles are placed individually in order to optimize the air distribution.

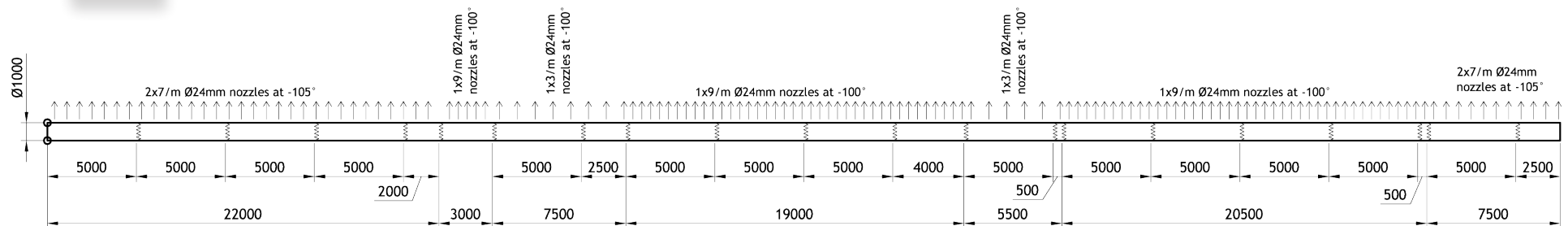
Next to the windows laser cut holes have been made in the duct in order to blow hot air on the windows to avoid the cold draught coming from here.

#### TECHNICAL INFORMATION:

Total air quantity KE-System:	12.000 m <sup>3</sup> /h
Temperature difference(cooling):	10,0 °C
Temperature difference(heating):	1,0 °C
Total dimensioning pressure loss (Pt):	110 Pa
External static pressure loss (ESP):	103 Pa
Total effect removed(cooling):	40 Kw
Total effect removed(heating):	4 Kw
Min. static pressure (centre duct):	99 Pa
Stated throw(min):	5,0 m
Max. air velocity (cooling):	0,41 m/s
Max. air velocity (heating):	0,25 m/s



85 metres Ø1000 duct



In the restaurant and conference room there are half round textile ducts (D shaped) with laser cut holes for optimum mixing of the air.

The conference room is made with D600 mm ducts for a better fit with the ceiling tiles.

Textile ducts come in different colours and the red colour is chosen to match the red Kalmar FF team colour.

All ducts are made in TREVIRA CS fire retardant materials.

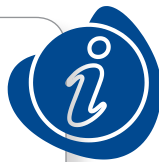
Johan Lagström, ACE Energi & Klimat - the consulting engineer - is very pleased:

*"As there was limited space in the lower ceiling we could not have solved it any other way than by choosing textile ducts. The air is distributed evenly in the entire system".*

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

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

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



Halfround (D shaped) textile ducts

The Guldfågeln staff is also satisfied with the ventilation system. Even during a football game with several hundred people in the room the air will still be nice and cool.

For more information please contact us:

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