

# Scandinavia's biggest multi-purpose sports arena chose textile ducts



Football hall

### Textile ducts provide uniform air distribution

Prioritet Serneke Arena in Gothenburg, Sweden, is Scandinavia's biggest multi-purpose sports arena featuring a large soccer hall, two handball halls and a Nordic Wellness fitness centre. All facilities have been fitted with textile ducts by KE Fibertec to ensure effective air distribution and thus a healthy indoor climate for both athletes and spectators.



### FACTS:

Consulting engineers:	ÅF Infrastruktur AB
Installation contractors:	Bravida Sverige AB
Materials:	ACP Luftbehandlingsprodukter AB / KE Fibertec AS



Football hall



Nordic Wellness fitness centre

### Longer throw with directional nozzles

In the football hall the plenum was laid out for Ø1250 mm and Ø1000 mm. The fresh and heated air is distributed by four textile ducts (Ø800 mm) that follow the slope of the roof. To obtain a longer throw the 100 metre long textile ducts have been fitted with Ø24 mm nozzles at both sides and Ø48 mm directional nozzles at the centre, approx. 25 metres above floor level (KE-DireJet).

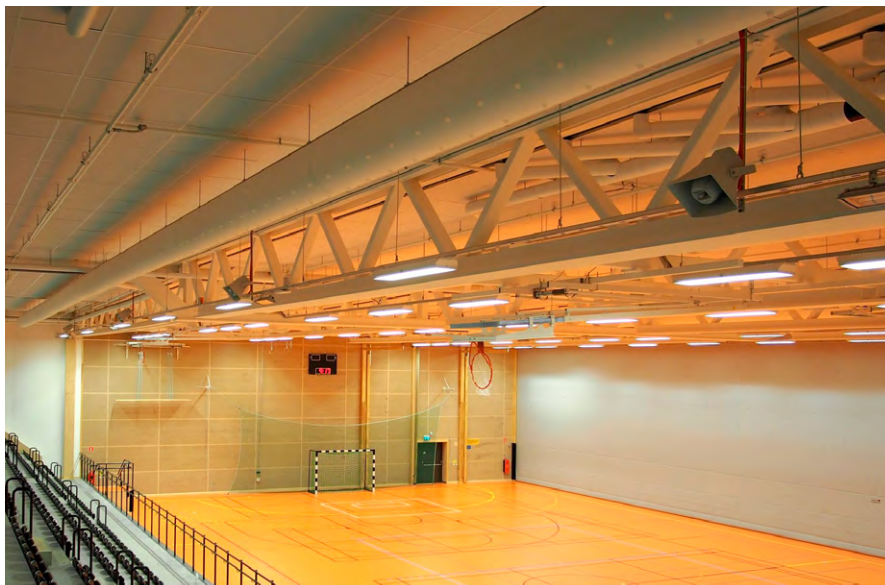
The air volume is 9,600 l/s and the entire room is heated by the inlet air. Measurements have shown a temperature difference ( $\Delta T$ ) between floor and ceiling of less than 1°C.

### TECHNICAL DATA:

Construction year:	2015
System:	KE-Inject (Hybrid) + KE-DireJet
Colour:	White (RAL 9010)
Material:	Trevira CS HDC (fitness centre) Inject (football hall/handball hall)
Suspension:	D-Lite Alu / Safetrack







Handball hall



Nordic Wellness fitness centre

### Distribution of large volumes of air without draught problems

The textile ducts in the handball halls have all been fitted with Ø24 mm nozzles for the entire airflow. However, the ducts right above the seats have been modified to avoid draught problems.

The textile ducts in the Nordic Wellness fitness centre are half-round and quarter-round, respectively, with lasercut holes that permit delivery of large volumes of air into the rooms without draught problems.

The fitness centre features aerobics, spinning, yoga, a play room, a reception area and a weights area.



Textile ducts have many advantages, among other things they are easy to install. In the football hall Bravida's fitters were operating from a height of 25 metres, something that could not have been possible with conventional steel ducts.

**Niclas Engström, Bravida Sverige AB**



Nordic Wellness fitness centre



Nordic Wellness fitness centre

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 come in all shapes and colours.

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



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