

# Ceiling Diffuser for efficient and draft- free air distribution

Distributor:



Euro Air A/S  
Industrivej Vest 21  
6600 Vejen - Denmark

Tel. +45 74 84 28 80  
[info@euroair.eu](mailto:info@euroair.eu)  
[www.euroair.eu](http://www.euroair.eu)



### **Ceiling panels for diffuse or directional ventilation**

A characteristic feature of textile based ventilation is the use of the entire surface area for air distribution. KE Fibertec places great emphasis on supplying uniform and draft-free ventilated air.

KE Fibertec offers ceiling panels for diffuse or directional ventilation with DFC baffles. Creating a healthy indoor air quality in rooms with low ceilings can be a challenge, however, it is possible with FBS panels.



## Efficient air distribution

FBS panels are made of flame retardant textile materials with an impermeable panel top so that air is distributed in the room and not above the ceiling.

The panel top allows for directional control of air into the room.

The entire visible surface is used actively for air distribution which generates low inlet air velocities and thus draft-free air distribution and low pressure loss.

The FBS panel design is a great advantage for solutions involving cooling or isothermal air distribution. The panels are available in two types: A pure low impulse solution and a solution with DFC baffles allowing for directional air distribution.

## Suitable for rooms with low ceilings

The panel top is made of textile material and is therefore flexible. That makes a panel solution ideal for rooms with limited headroom above the ceiling and for rooms with low ceilings. In addition, the panels are fully integrated into the ceiling.

[See list of suspended ceiling types at fbspanels.com](http://www.fbspanels.com)

Due to the low weight of the panels any additional ceiling suspension is unnecessary, and the panels are installed in the same way as a traditional ceiling panel.

The panels are very suitable for schools, offices, and other comfort environments. Furthermore, they can replace traditional ceiling units.

## Why choose FBS ceiling panels?

- Draft-free air distribution
- Fully integrated in suspended ceiling
- Low pressure loss
- Low sound pressure level
- Low weight
- Quick and easy installation and maintenance
- A flexible solution that is supplied as single panels or combined into a set of panels to form a pressure chamber (up to 4 panels)
- Tools not needed for installation
- Available in standard and special colours
- Standard articles for delivery at short notice
- Can replace standard size ceiling panels

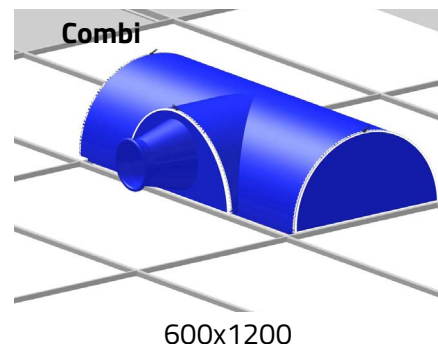
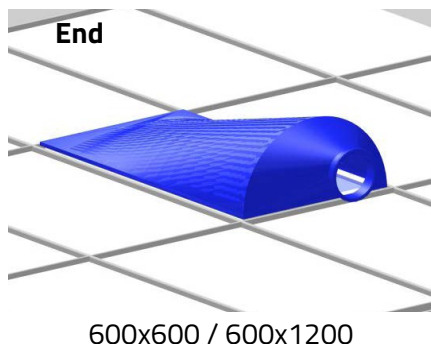
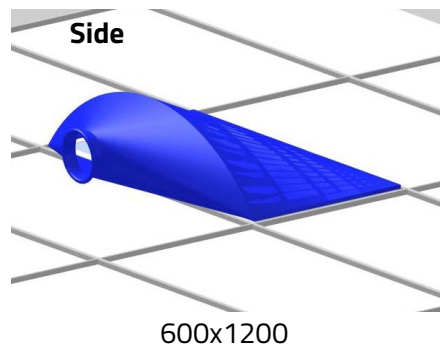
**[Read more at www.fbspanels.com](http://www.fbspanels.com)**



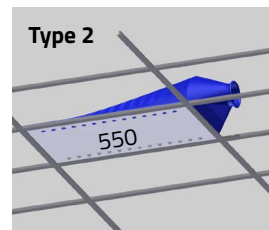
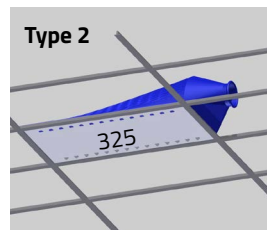
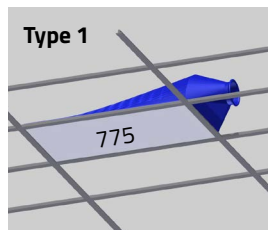
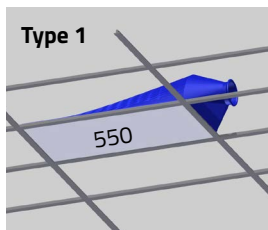
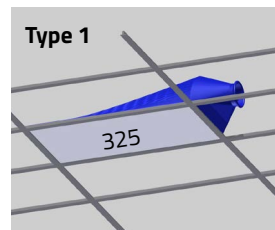
## Types

The panels are made in sizes 600x600 mm and 600x1200 mm for standard suspended ceilings and come with a flexible socket Ø160-250 mm.

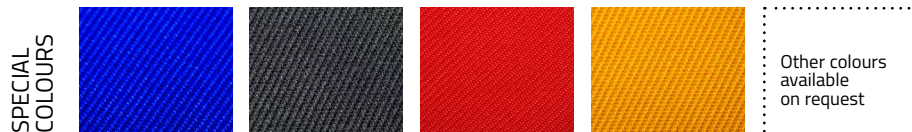
600x600 panels always come with a socket at the end of the panel. 600x1200 panels come with a socket at the side or at the end of the panel.



Side, End and Combi are available as a low impulse solution in three different permeabilities and with DFC.



## Colours



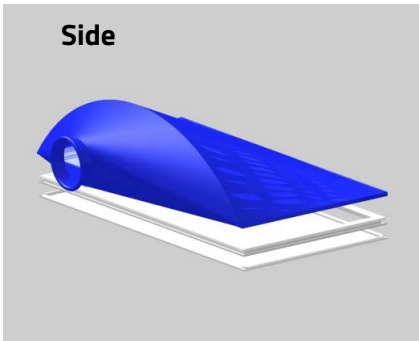
## Wash

For washing of the panels only the visible part (bottom) is to be removed from the panel. Tools are not needed. The textile material should be washed at 40°C according to the washing instructions for the material.



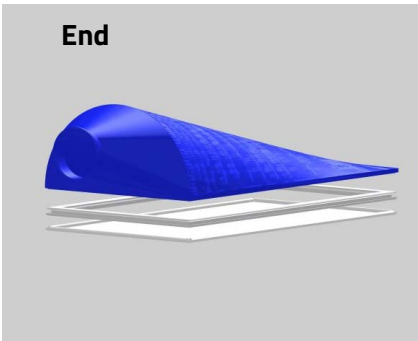
**Contents of the box**

**Side**



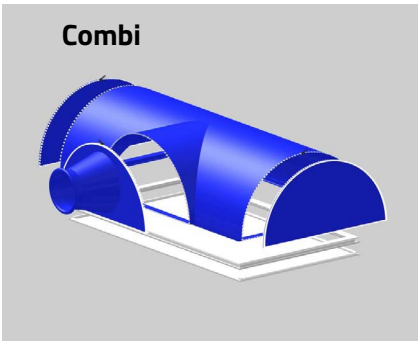
600x1200

**End**



600x600 / 600x1200

**Combi**



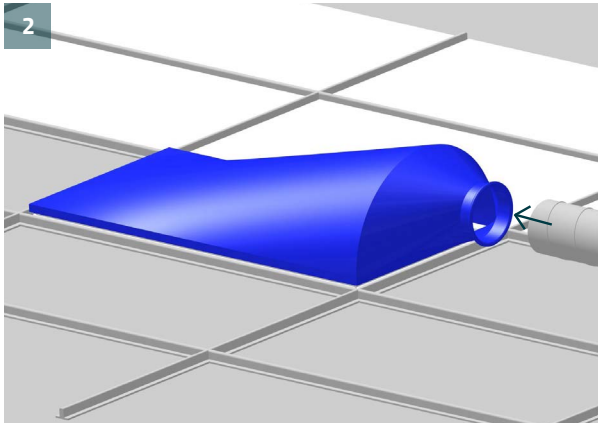
600x1200

**Installation**

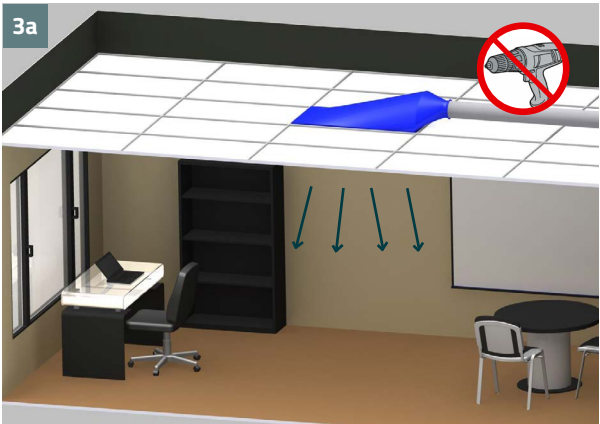
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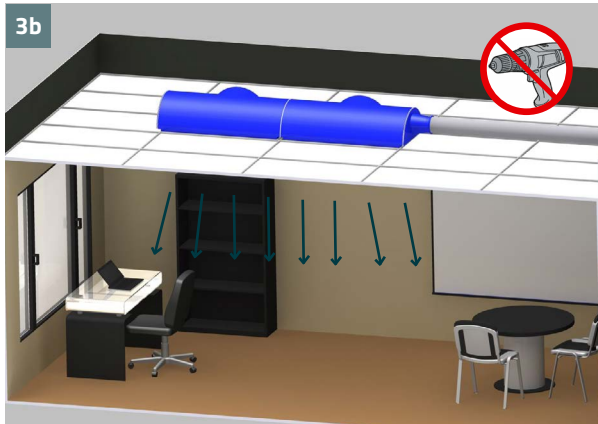
2



3a



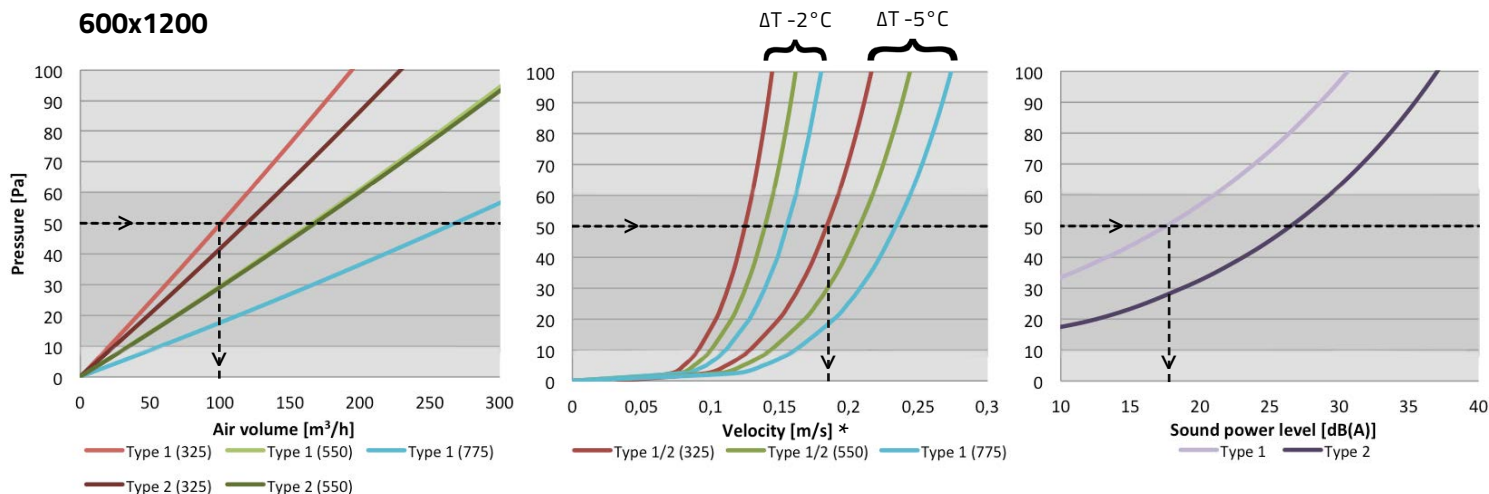
3b





## Technical information

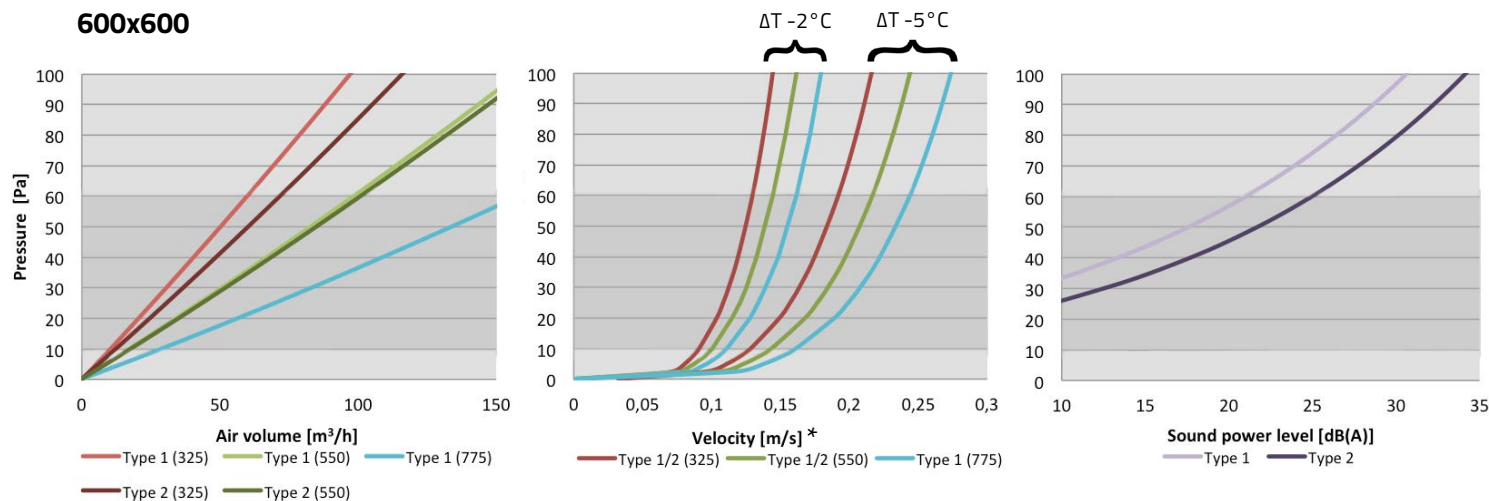
### 600x1200



### Example of Type 1 (325) - 600x1200

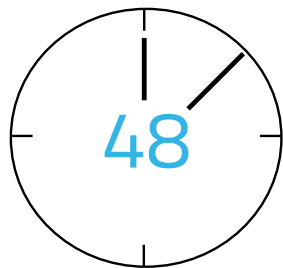
A pressure of 50 Pa and  $\Delta T = -5^\circ\text{C}$  will generate an air volume of 100 m³/h, a velocity in the occupied zone of 0.18 m/s and a sound power level of 17 dB(A).

### 600x600



\*) Velocity calculated in the occupied zone based on a room height of 2.5 m.

## Delivery

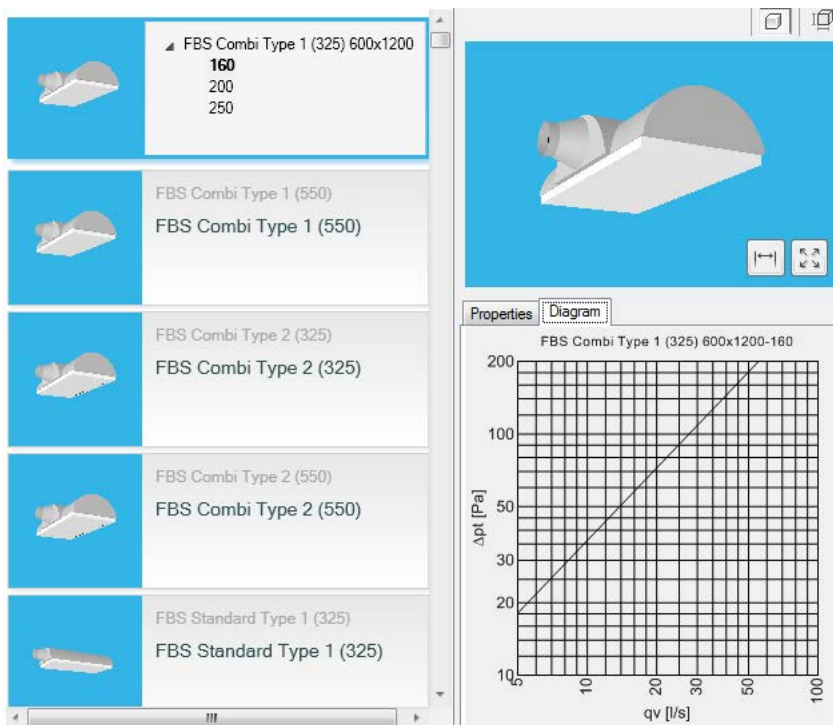


When ordering **FBS panel 600x1200 Side type 1 (550) and 600x600 End type 1 (550)** in white or light grey, we offer a 48 hour delivery option.

The order is ready for delivery no later than 48 hours upon order confirmation. Please, note that the maximum number of FBS panels per delivery is 10.

For other types and/or colours and for larger quantities than 10 panels our general terms of delivery apply.

## BIM



FBS panels are available as MagiCAD components for AutoCAD and Revit.

The components are available for the standard sizes 600x600 and 600x1200 and for Combi size 600x1200.

Both models are made for type 1 and 2 and contain technical calculations.

[www.magicloud.com](http://www.magicloud.com)

**MagiCAD®**

