



## FBA

- These floor diffusers have been designed to withstand very heavy usage.
- Can be used with and without a border unit.
- Control of discharge characteristics and unit flow rate are available as accessories which fit into the dirt trap.

## MATERIAL

The floor diffuser and trim ring are manufactured from aluminum die cast. The twirl plate is made from black ABS plastic and the dirt trap is available either ABS plastic or metal.

The plenum box is made from galvanized formed sheet steel and will be painted matt black (RAL 9005).

## DESIGN VARIANTS

The floor diffuser core incorporates a large number of support ribs for structural integrity, capable of withstanding a point load at the center for up to 20 KN. The floor diffuser can be manually adjusted to provide vertical and horizontal supply air discharge, in a swirl pattern.

The twirl plate is employed to alter the discharge pattern to create a swirling motion thereby ensuring (available only for adjustable swirl element).

The trim ring flange is used primarily for carpet flooring installations in order to prevent the carpet edges from fraying. The spring clip solution makes the installation easy.

The dirt trap includes with winged volume control elements is apply to VF option only. These are used to control the air volume and act as balancing blades commissioning.

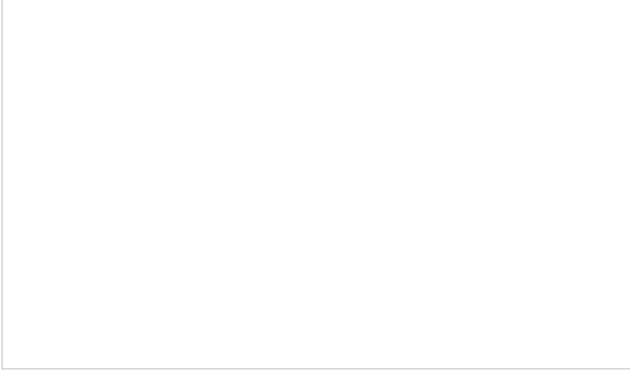
A plenum box may be fitted to the rear is recommended and should underside of the raised floor title. A floor sealant between the plenum box and floor tile shall be provided and carried out by the installer.

## Installation

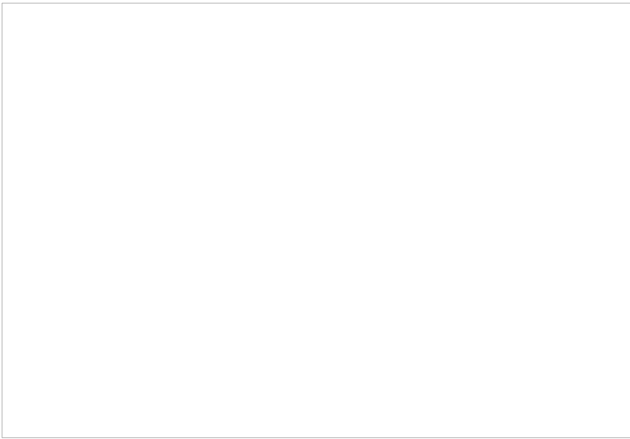
The use of trim rings is recommended for installation in false floors with carpeting and can be installed in floor tiles that are least 10mm thick. the installation openings required for the trim ring version is 270 (-0/+2) mm diameter.

## TECHNICAL INFORMATION

**TBA - V/h adjustable**

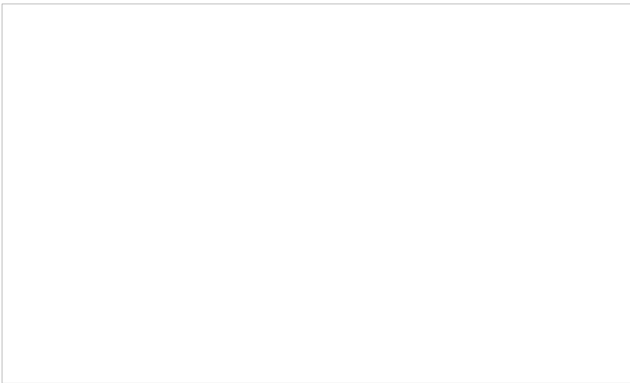


**TBA - VF vertical fix**



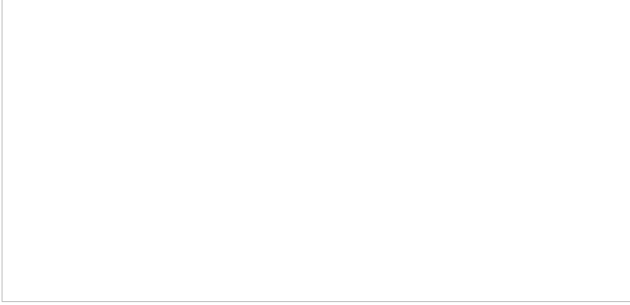
**Plenum box**

Plenum boxes for installation in floors that are not designed as positive pressure plenum.



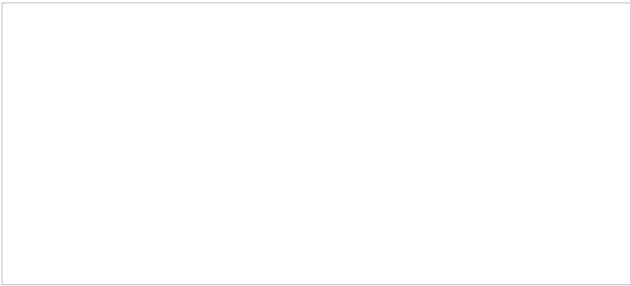
**Positive pressure plenum floors**

Positive plenums are preferred for large floor areas. Here, plenum boxes are not require due to the uniform under floor pressure distribution. It is not necessary to balance the air flow to individual diffusers.



### **Individual rooms**

The use of plenum boxes is recommended for individual room temperature control. This guarantees that air flow rate to each room can be controlled separately, e.g by room thermostats.



### **Comment**

The use of the dirt trap is not absolutely necessary, dependent on the condition within the room or how the room is used. The aerodynamic performance of the diffuser is not in the room or how the room is used. The aerodynamic performance of the diffuser is not influenced by dirt trap.