

FFD

rigid floor diffuser



1.9

1 SWIRL DIFFUSERS

**Design**

The FFD is a floor diffuser which is particularly suitable for use within telecommunication rooms, computer centres and commercial offices where a good ventilation of the space is required. The diffuser supplies the air in such a way that a stable temperature is quickly achieved, thus it is best suitable for heating and cooling of electronic equipment and other devices.

The diffuser is meant for direct installation into the upper surface of the pressurised floor void but can also be connected via an optional plenum box.

Function:

The diffuser can be used for flow rates from 55 m³/h up to 175 m³/h, the maximum temperature difference between room and supply air should not be higher than 10K. Depending on temperature differential the air leaves the diffuser creating in bell shape air plume providing an intensive mixture with the room air. Air velocities and temperature differences are promptly reduced.

Material:

The diffuser consists of mechanically durable plastic (max. load on the diffuser 550 kg); colours: grey (similar to RAL 7040) or black

Accessories & optional varieties:

- plenum box
- throttle within spigot
- in other RALs on inquiry

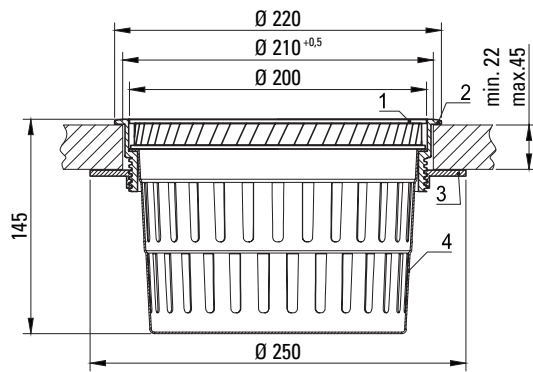
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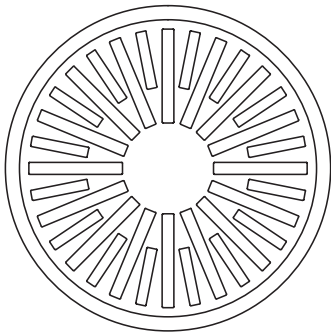


dimensions and accessories:

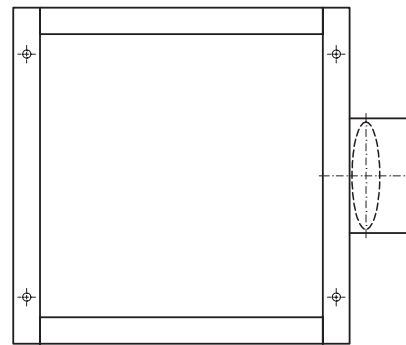
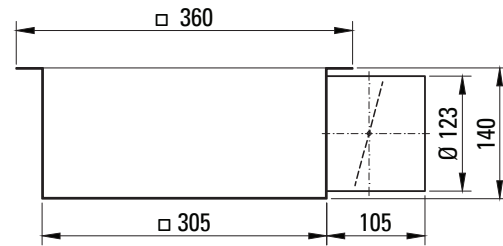
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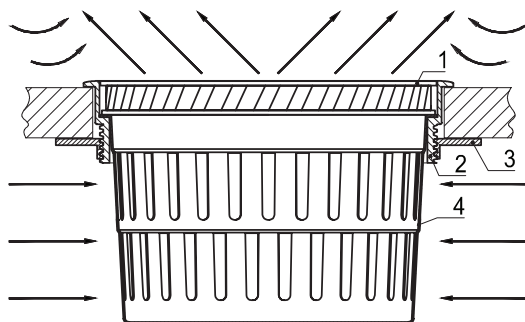
the necessary cutout is 210 mm



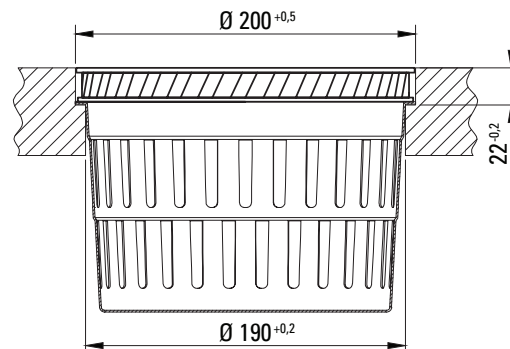
plenum box



floor assembly:



front plate (1), mounting ring (2), installation shell (3), intake basket (4)



assembly without mounting ring (2) and installation shell (3)

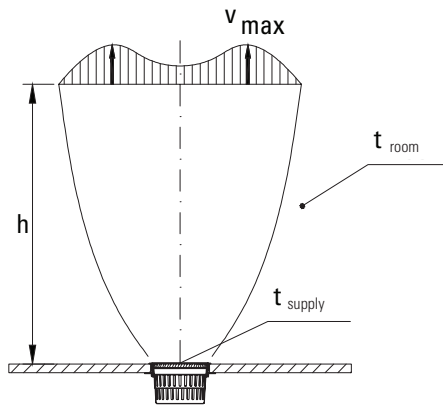
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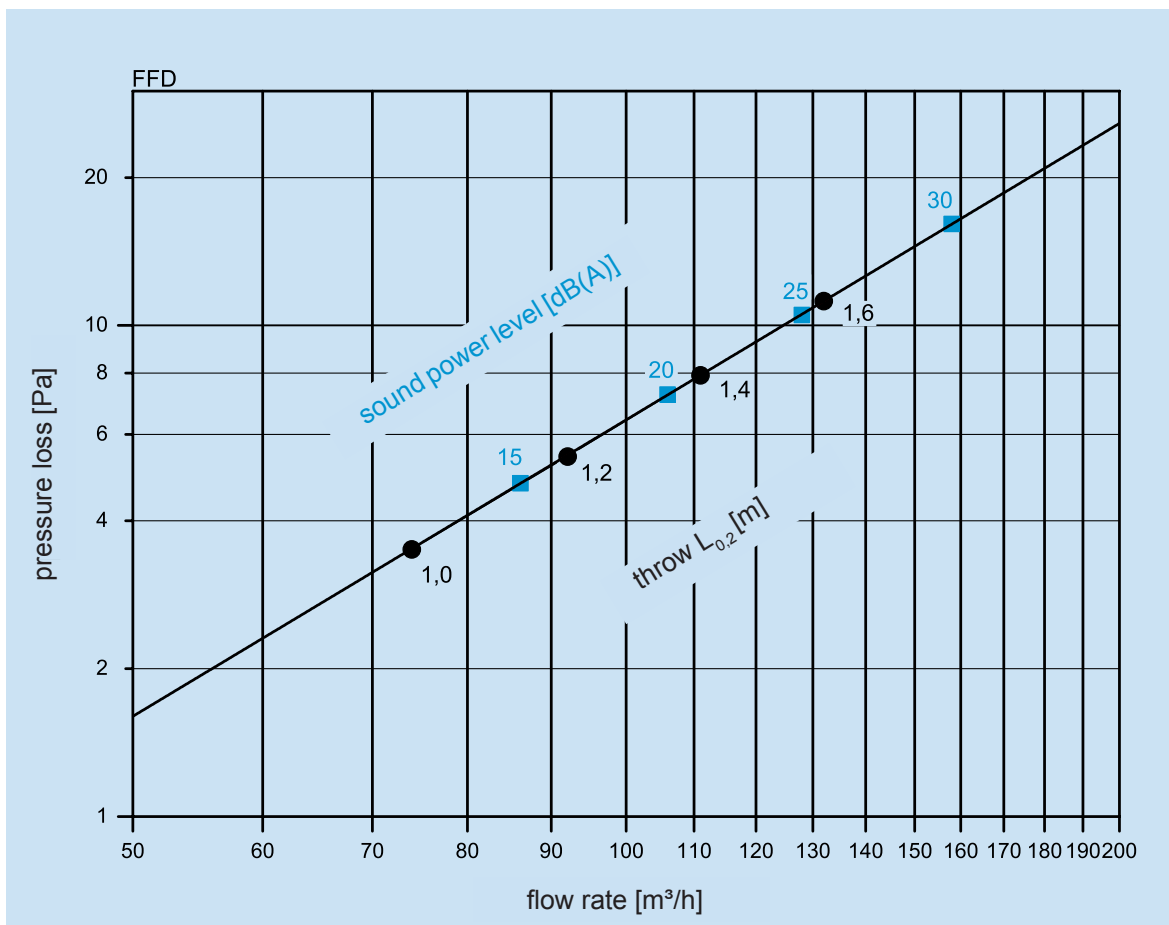


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principal beam diffusion:


At maximum flow rates in cooling mode the difference between supply and room air temperatures in the occupied zone is less than 1 K, which means that the supply air is fully mixed, ensuring maximum comfort.

flow data:


(the sound pressure levels given are valid for a room with a room absorption area of 10m² Sabine and a room attenuation of 4 dB)

