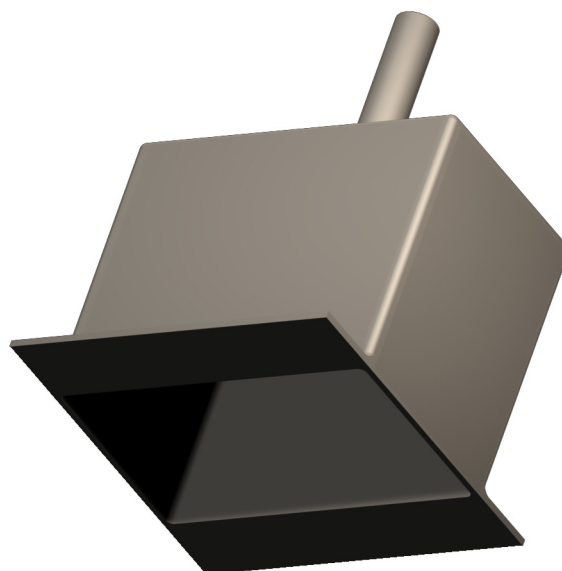




Pressure Measurement Box

4-DE



SCHAKO KG
Steigstraße 25-27
D-78600 Kolbingen
Phone +49 (0) 74 63 - 980 - 0
Fax +49 (0) 74 63 - 980 - 200
info@schako.de
www.schako.de

Pressure measurement box 4-DE

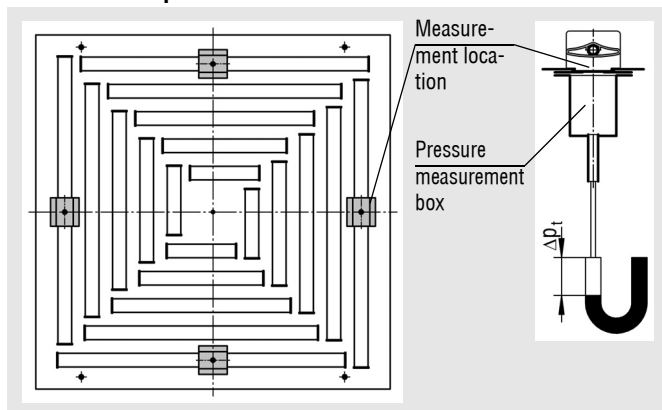
Description

Volumetric flow measurement at the ceiling diffuser type 4-DE

(Pressure measurement box)

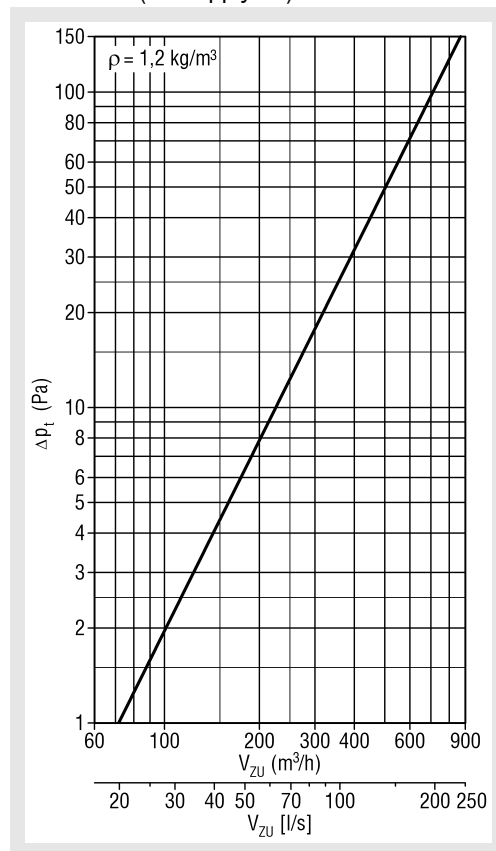
It is often no longer possible to perform a volumetric flow measurement at the connecting pipe in the ceiling cavity. The pressure measurement box is available to address this requirement. The pressure measurement box is connected to a suitable measurement instrument such as an inclined tube pressure gauge. The box is then pressed against the measurement points of the diffuser shown below and the pressure measured at the gauge. An average value is calculated from the sum of these four individual measurements. On the diagram, the volumetric flow can now be read.

Measurement points



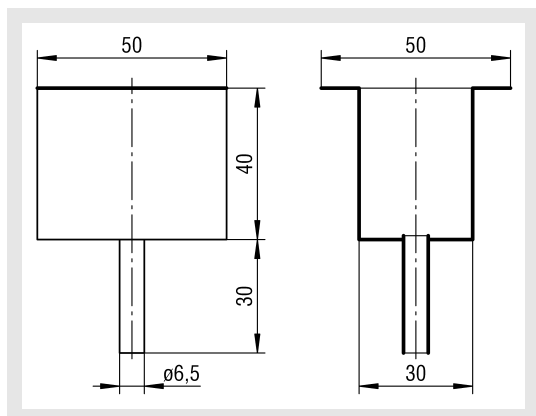
Supply air pressure loss

4-DE-Z 310 (for supply air)



Dimensions

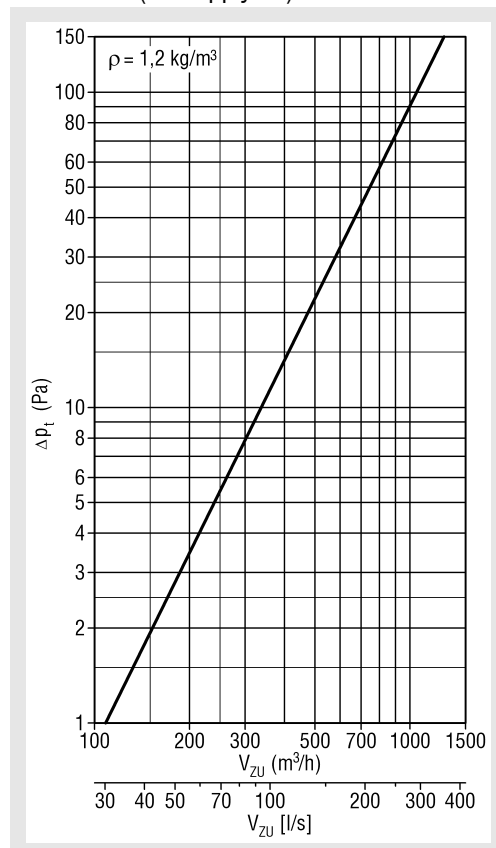
Pressure measurement box



Attention:

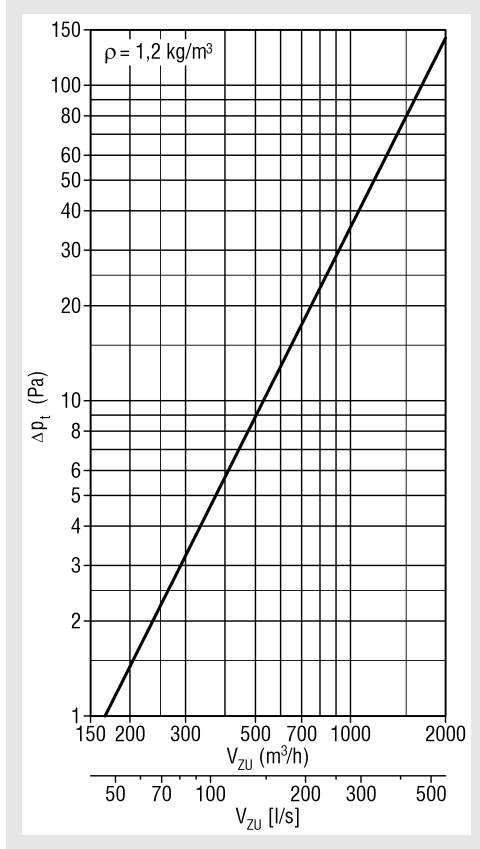
In the return air model, the pressure measurement hose must be connected to the - pole of the pressure gauge, in order to measure a positive pressure!

4-DE-Z 400 (for supply air)

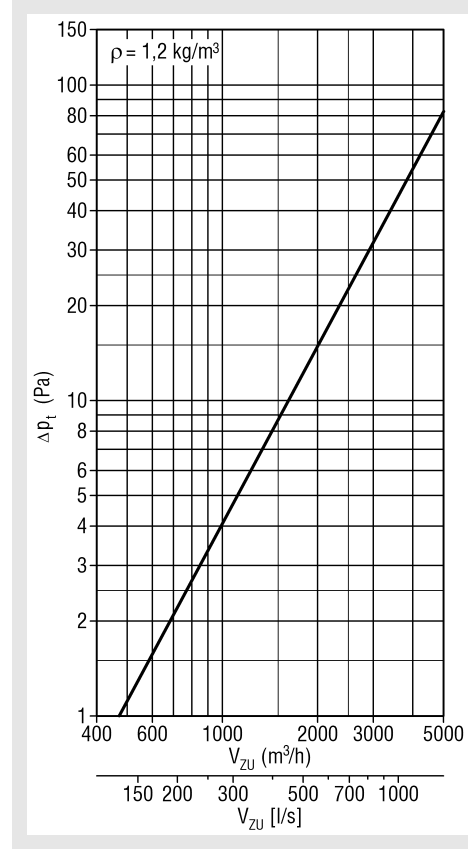


Pressure measurement box 4-DE

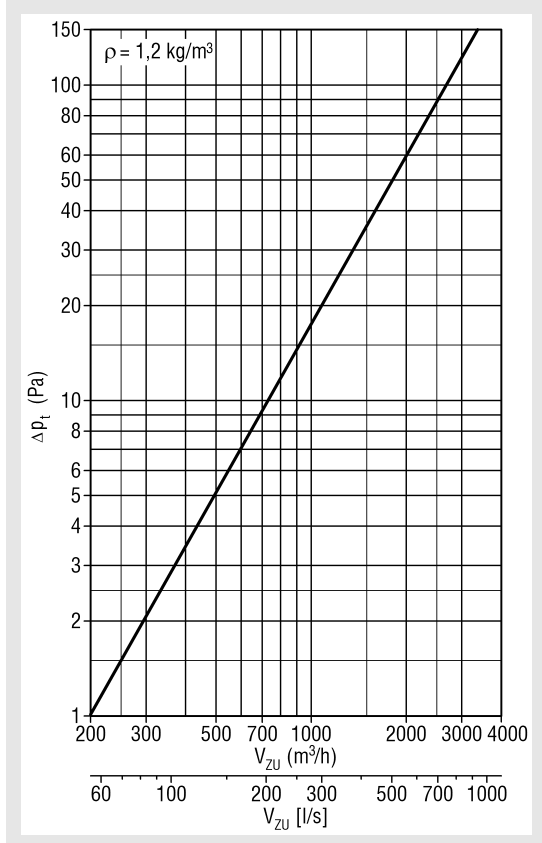
4-DE-Z 500 (for supply air)



4-DE-Z 800 (for supply air)



4-DE-Z 600 (for supply air)



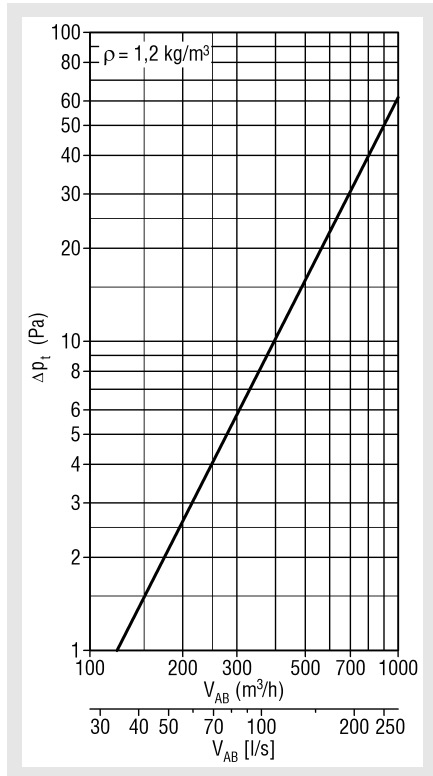
Pressure measurement box 4-DE

Return air pressure loss

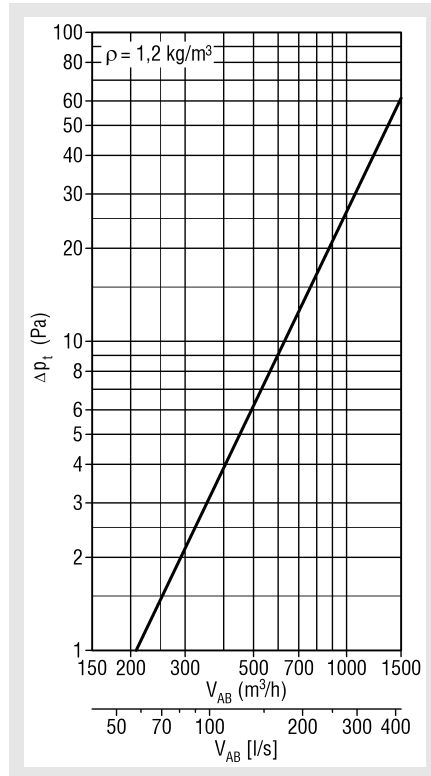
Attention!

The pressure measurement hose must be connected to the - pole of the pressure gauge, in order to measure a positive pressure!

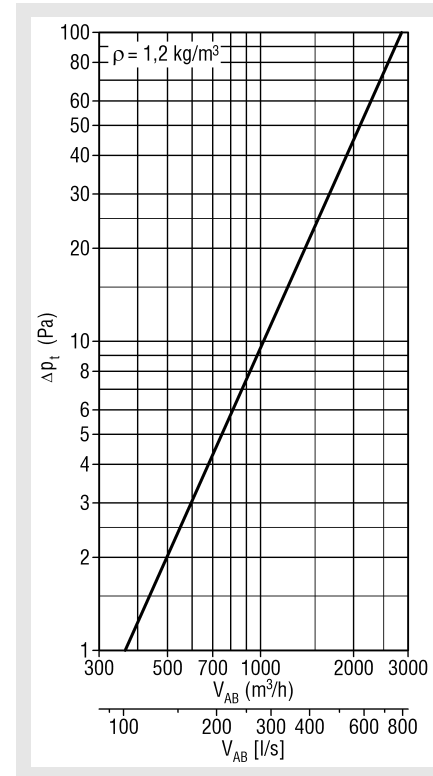
4-DE-A 310 (for return air)



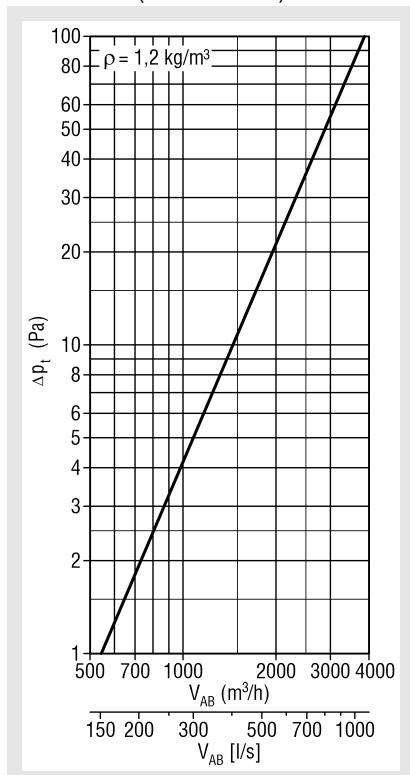
4-DE-A 400 (for return air)



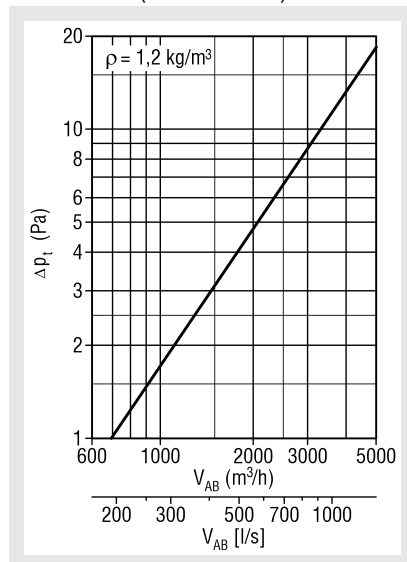
4-DE-A 500 (for return air)



4-DE-A 600 (for return air)



4-DE-A 800 (for return air)



Legend

- Δp_t (Pa) = Pressure loss
- V_{ZU} (m³/h) = Supply air volume
- V_{ZU} [l/s] = Supply air volume
- V_{AB} (m³/h) = Return air volume
- V_{AB} [l/s] = Return air volume
- ρ (kg/m³) = Density