

Installation

Remove the diffuser face and set the required diffusion pattern. Note that the transparent air deflector has a slightly wedge-shaped cross section. Install the deflector so that its thinner edge is positioned towards the bottom of the air diffuser. Press the air diffuser to secure it to the duct or joint. It will then be held in place by its built-in spring clips. If required, the air diffuser can be secured by screws to the duct or to the wall/ceiling. Ultimately, refit the front. See Figures 2 to 5.

NOTE! Never apply any pressure to the diffuser face (cover).

Commissioning

Commissioning must be carried out after the diffuser has been mounted and completely assembled. Remove the diffuser face and connect the measurement hose to the measurement tapping and to a manometer. Then refit the diffuser face. The air flow can be determined using the C-factor of the air diffuser. If necessary, break off one or more rings from the commissioning plate to increase the air flow. See table 1. K-factors are specified on the product's identification label and in this document.

Maintenance

The air diffuser can be cleaned, if necessary, using lukewarm water with dishwashing detergent added. The duct system can be accessed after removing the diffuser face and the commissioning plate.

Table 1 – Commissioning quick guide

White fields indicate sound levels lower than 30 dB(A).
K indicates K-factor (COP).

Pressure in measuring tube (Pa)	Air flow (l/s)			
	R1 K = 1,3	R2 K = 2,3	R3 K = 3,3	R4 K = 3,9
10	4	7	10	12
20	6	10	15	17
30	7	13	18	21
40	8	15	21	25
50	9	16	23	25
60	10	18	26	30
70	11	19	28	33

Calculating airflow using K-factor:

$$q = k \cdot \sqrt{p_i} \quad [l/s] \quad p_i = \left(\frac{q}{k}\right)^2 \quad [Pa]$$

q = flow reading (l/s)

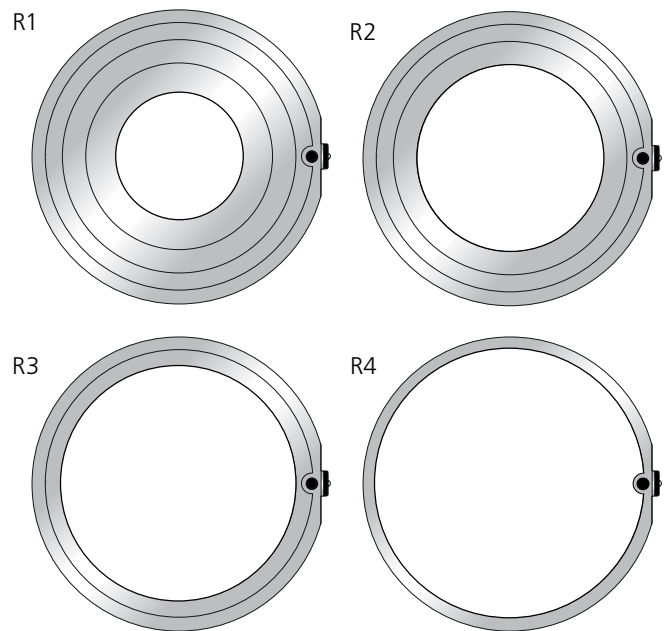
p_i = current pressure reading (Pa)

k = commissioning factor

Table 2 – Duct connection alternatives

Placement of the measuring socket depending on duct connection alternatives.

Duct connection	Positioning of the measuring socket
straight connection	3 or 9 o'clock
90° bend, connection up/down	3 or 9 o'clock
90° bend, connection left/right	6 or 12 o'clock




 = measuring socket

Figure 1. Separable commissioning plate. R1-4 illustrates the different commissioning options with measuring socket positioned at 3 o'clock.

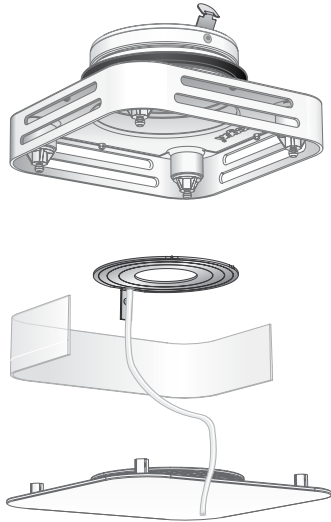


Figure 2. Installation. Commissioning.

Air distribution patterns

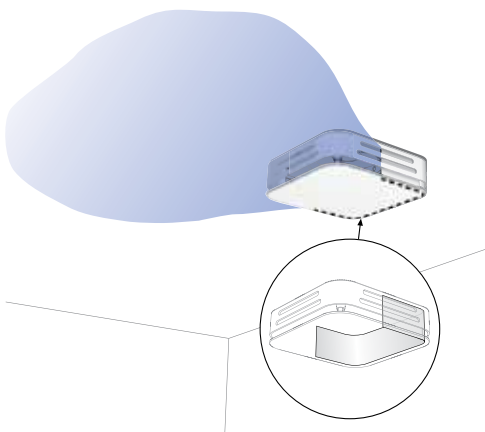


Figure 3. 1-way, ceiling mounting.

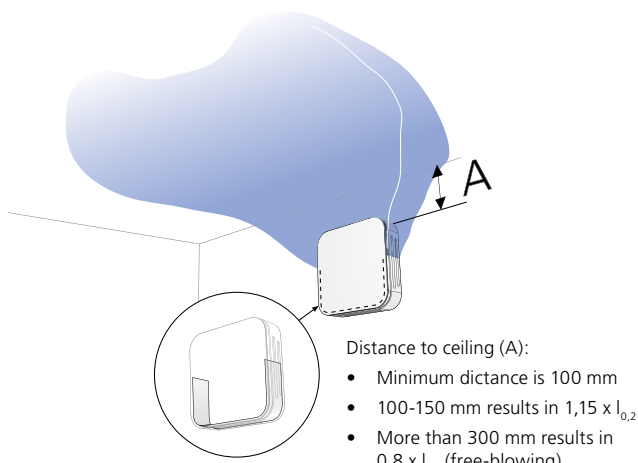


Figure 4. 1-way, wall mounting.

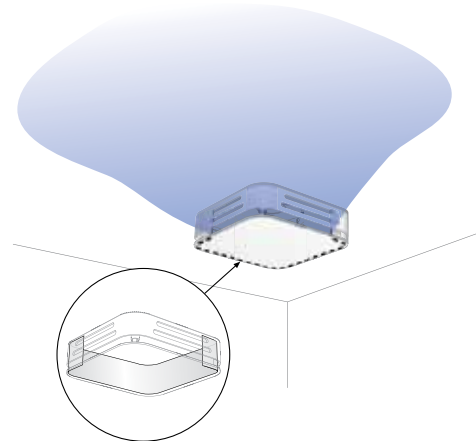
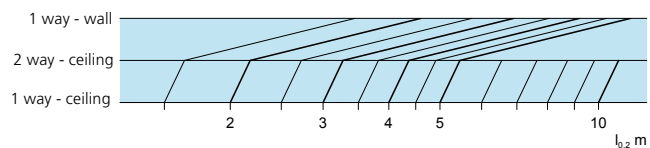
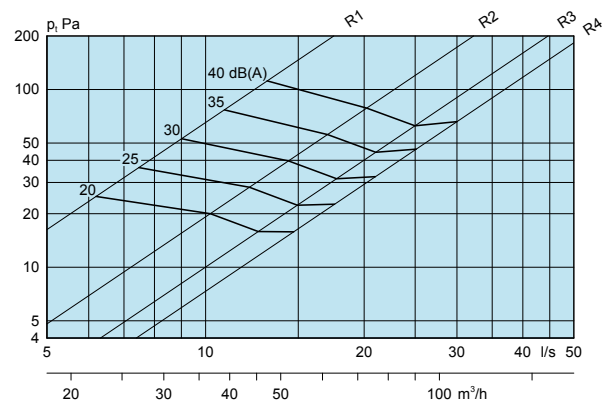


Figure 5. 2-way, in a corner, ceiling mounting.

Sizing diagram

- Throw $I_{0,2}$ is measured under isothermal discharge conditions.
- 1-way mounted on wall is applicable for DOMO mounted 200 mm from the ceiling (measured from the top edge).
- Recommended max. permissible temperature below room temperature is 3 K.
- dB (A) applies to rooms with normal acoustic, 4 dB room attenuation / 10 m² equivalent absorption area.



Dimensions and weights

Dimensions (mm)				Weight (g)
A	B	C	Ød	
160	44	44	99	365

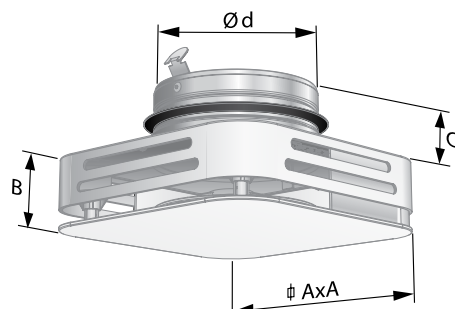


Figure 6. Dimensions, DOMO.