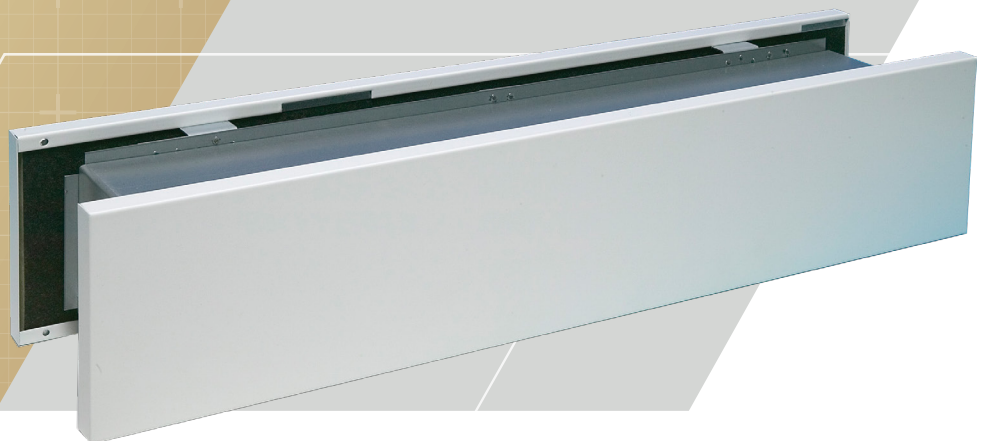


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Transfer air device SKA

TECHNICAL DATA





SKA TRANSFER AIR DEVICE

SKA is a transfer air device designed for wall mounting. The device is used to transfer air between rooms. In addition, SKA attenuates the sound transfer from room to room. The device can be mounted in walls of various thicknesses, and it is non-transparent. SKA causes minimal pressure drop.

QUICK SELECTION

Size	Air flow l/s at	
	10 Pa	15 Pa
600-100	34	42
700-100	38	47
800-100	42	52
900-100	45	56
1000-100	51	63



SPECIFICATIONS

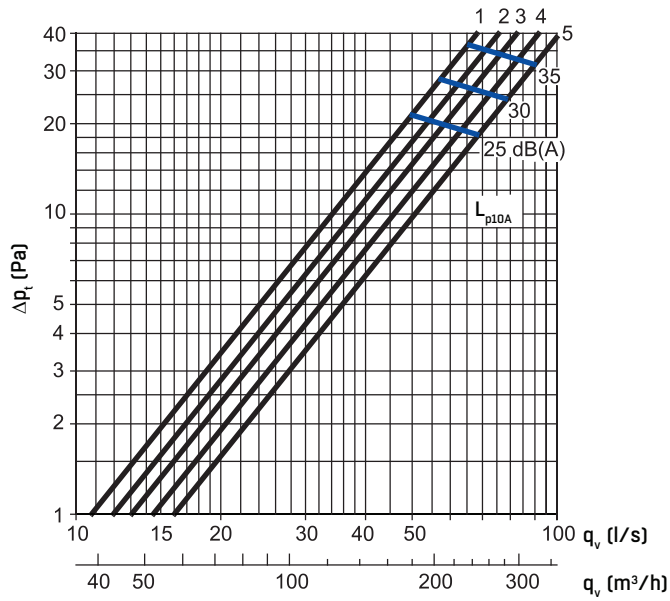
- Attenuates sounds transferred from room to room
- Low pressure drop
- Adjustable for different wall thicknesses
- Aesthetic design

PRODUCT CODE EXAMPLE

Transfer air device SKA-800-100

SELECTION AND DIMENSIONS

SELECTION DIAGRAM

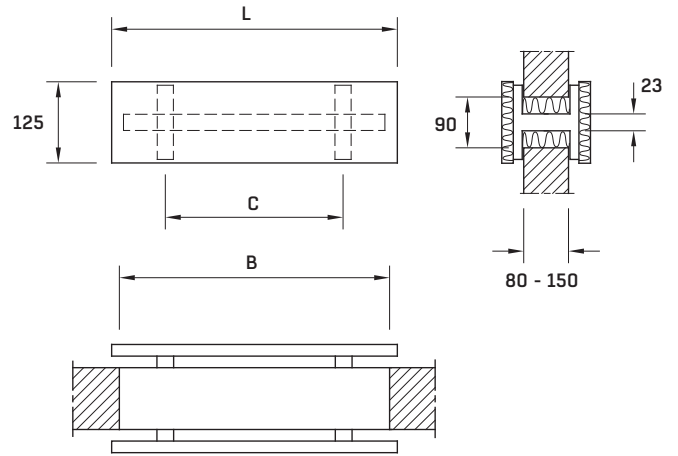


1	600-100
2	700-100
3	800-100
4	900-100
5	1000-100

DEFINITIONS

q_v	Air flow	l/s, m^3/h
Δp_t	Total pressure drop	Pa
L_{p10A}	Sound pressure level with 4 dB room attenuation (10 m^2 sab)	dB(A)

DIMENSIONS



Size	L (mm)	B (mm)	C (mm)
600-100	600	545	400
700-100	700	660	500
800-100	800	760	600
900-100	900	860	700
1000-100	1000	960	800

SOUND ATTENUATION

SOUND ATTENUATION

Size	Unit attenuation D_1 (dB)					
	Middle frequency of octave band f (Hz)					
	125	250	500	1000	2000	4000
600-100	20	19	17	26	38	39
700-100	19	19	16	26	37	38
800-100	17	18	16	26	36	37
900-100	16	17	15	26	34	37
1000-100	15	16	14	25	33	37
Tolerance \pm	2	2	2	2	2	2

The D_1 value given in the table is unit insulation according to the Nord-test method NT ACOU 037. The total attenuation of the wall by each frequency band can be obtained according to the following formula:

$$R_p = 10 \times \log [S / (S \times 10^{-R/10} + 10^{-D_1/10})]$$

where

R_p = total attenuation of the wall by frequency band in question (dB)

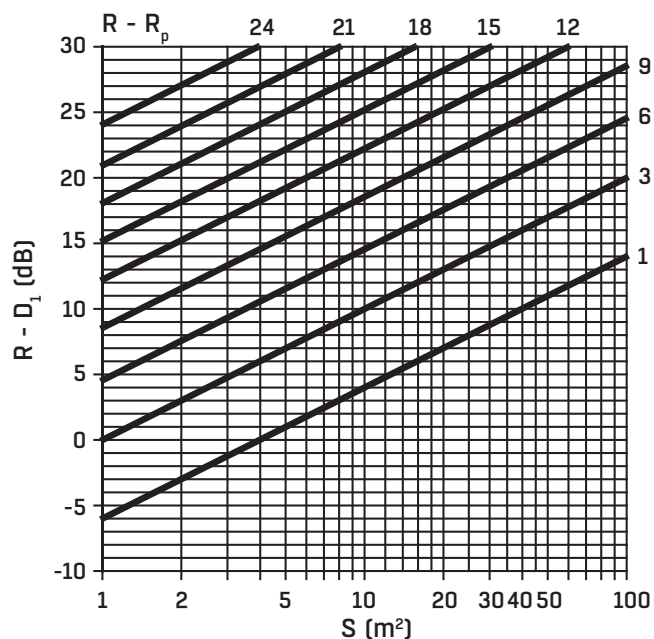
S = total area of the wall (m²)

R = attenuation of the wall without transfer air device by frequency band in question (dB)

D_1 = unit attenuation of transfer air device by frequency band in question (dB)

This formula applies, if the surface area of the transfer air device is smaller than 15 % of the total wall surface. The total attenuation of the wall by each frequency band is also obtained by means of the diagram.

SOUND ATTENUATION OF WALL



EXAMPLE

SKA-800-100

Octave band: $f = 1000$ Hz

Area of the wall: $S = 10$ m²

Attenuation of the wall: $R = 40$ dB ($f = 1000$ Hz)

Unit attenuation: $D_1 = 26$ dB

$$R_p = 10 \times \log [10 / (10 \times 10^{-40/10} + 10^{-26/10})] = 34.5 \text{ dB}$$

or from the diagram:

$$R - D_1 = (40 - 26) \text{ dB} = 14 \text{ dB}$$

$$\Rightarrow R - R_p = 5.5 \text{ dB} \Rightarrow R_p = 34.5 \text{ dB}$$

GENERAL AND PRODUCT CODE

CONSTRUCTION

SKA is a transfer air device designed for wall mounting. The device is used to transfer air between rooms. In addition, SKA attenuates the sound transfer from room to room. The device can be mounted in walls of various thicknesses, and it is non-transparent. SKA causes minimal pressure drop.

The device is equipped with a sound attenuating frame and the face plates. The frame depth can be adjusted according to wall thickness. The construction of SKA enables the lateral centering of the face plates.

FUNCTION

The air transfer between rooms is caused by pressure difference. The device attenuates sounds transferred from one room to another, and distributes the outcoming air evenly in all directions.

MATERIAL AND SURFACE FINISH

SKA is made of hot galvanized steel sheet. Sound attenuation material is mineral wool.

Standard colour is white (RAL 9010).

INSTALLATION

The device is installed inside an opening in a wall or door. The minimum dimensions of the opening are B x 95 mm. The wall thickness can vary between 80 and 150 mm.

PRODUCT DESCRIPTION

Transfer air device SKA manufactured by FläktGroup, e.g. in size 800-100.

PRODUCT CODE

Transfer air device

SKA-aaaa-bbb

Nominal size, width-height in mm (aaaa-bbb)

600-100, 700-100, 800-100, 900-100, 1000-100

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