

Transfer air device **SK1**

TECHNICAL DATA





SK1 TRANSFER AIR DEVICE

SK1 is used for air transfer between rooms when sound attenuation in the air flow opening is needed. SK1 is usually installed into the wall above a door.

QUICK SELECTION

Size	Air flow (l/s) at 10 Pa	Air flow (l/s) at 15 Pa
0400-150	9	11
0500-150	13	16
0600-150	20	24
0700-150	27	33
0800-150	35	42
0900-150	45	55
1000-150	52	65



SPECIFICATIONS

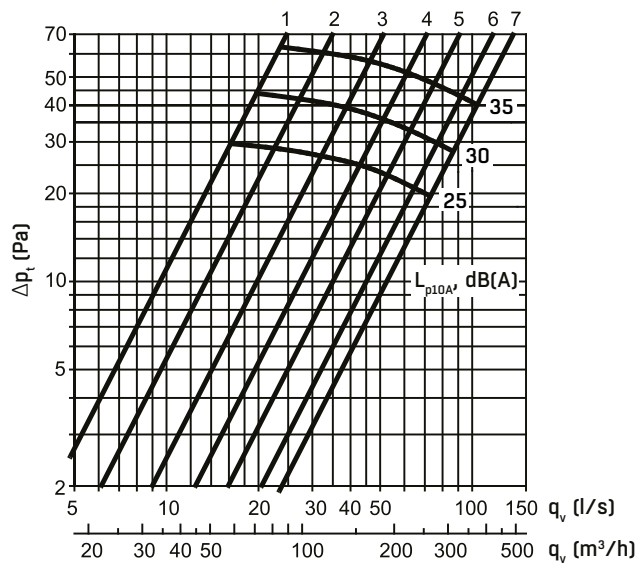
- Low pressure drop
- High level of sound attenuation
- Adjustable to various wall thicknesses
- Sound attenuation material is polyester

PRODUCT CODE EXAMPLE

Transfer air device SK1-0400-150-1

SELECTION AND SOUND DATA

SELECTION DIAGRAM



	SK1
1	0400-150
2	0500-150
3	0600-150
4	0700-150
5	0800-150
6	0900-150
7	1000-150

DEFINITIONS

q_v	Air volume	l/s, m³/h
Δp_t	Total pressure drop	Pa
L_{p10A}	Sound pressure level with 4 dB room attenuation (10 m² sab)	dB(A)

SOUND ATTENUATION

Size	Sound insulation value $D_{n,e,w}$ (dB)
0400-150	35
0500-150	34
0600-150	34
0700-150	33
0800-150	33
0900-150	32
1000-150	32
Tolerance $\pm$	3

The measurements have been made in accordance with EN ISO 10140-1:2021 and EN ISO 10140-2:2022. The $D_{n,e,w}$ values are determined according to ISO 717-1:2020 and are given for a 10 m² transfer area. The $D_{n,e,w}$ values shown in the table are for a device installed in a 110 mm thick insulated plasterboard wall.

The total attenuation of the wall and transfer air device is obtained according to the following formula:

$$R_{tot} = 10 \times \log[S/(S \times 10^{-R_s/10} + 10 \text{ m}^2 \times 10^{-D_{n,e,w}/10})]$$

where

R_{tot} = Total attenuation of the wall and the device (dB)

S = Total area of the wall without the device (m²)

R_s = Attenuation of the wall construction (dB)

$D_{n,e,w}$ = $D_{n,e,w}$ value of the transfer air device (dB)

EXAMPLE

SK1-0600-150-1

Area of the wall: $S = 12 \text{ m}^2$

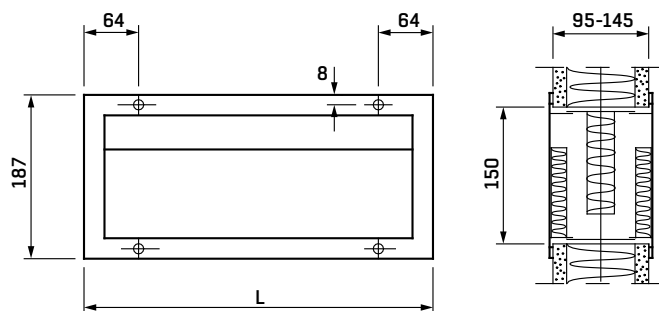
Attenuation of the wall: $R_s = 38 \text{ dB}$

Sound insulation value $D_{n,e,w} = 34 \text{ dB}$

$$R_{tot} = 10 \times \log[12/(12 \times 10^{-38/10} + 10 \text{ m}^2 \times 10^{-34/10})] = 34,3 \text{ dB}$$

DIMENSIONS AND GENERAL

DIMENSIONS AND WEIGHT



Size	L (mm)	Weight (kg)
0400-150	437	2,0
0500-150	537	2,5
0600-150	637	3,0
0700-150	737	3,5
0800-150	837	4,0
0900-150	937	4,5
1000-150	1037	5,0

APPLICATION

SK1 is used for air transfer between rooms when sound attenuation in the air flow opening is needed.

SK1 is usually installed into the wall above a door. The low pressure drop of the device allows relatively large air transfer volumes between rooms. On the other hand, an excellent level of total sound attenuation of the wall is attained by the good silencing qualities of the device. View through the device is obstructed by the design.

The depth of the casing is adjustable to the wall thickness.

FUNCTION

The air flow from one room to another is due to differences in pressure. Air flows through a rectangular slot on the front panel of SK1. The device functions as a silencer in an opening between rooms.

MATERIAL AND SURFACE FINISH

The casing is made of hot-galvanized steel and front panels of aluminium. The sound attenuation material is polyester.

The front panels are powder coated. Standard color is RAL 9003. Other colours on request.

INSTALLATION

The device is installed into an opening in a wall or a door. The minimum dimensions of the opening are B x 150 mm (B = nominal width of the device). The thickness of the wall can be from 95 mm to 145 mm.

PRODUCT DESCRIPTION

Transfer air device SK1 by FläktGroup.

PRODUCT CODE

PRODUCT CODE

Transfer air device

SK1-aaaa-bbb-1

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

0400-150, 0500-150, 0600-150, 0700-150,
0800-150, 0900-150, 1000-150



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