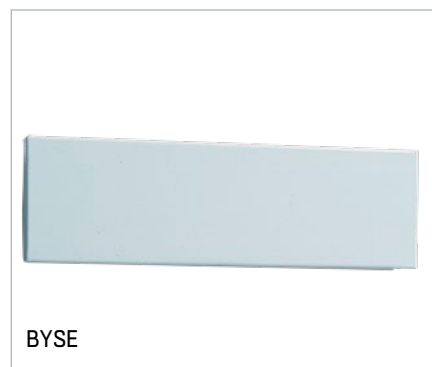
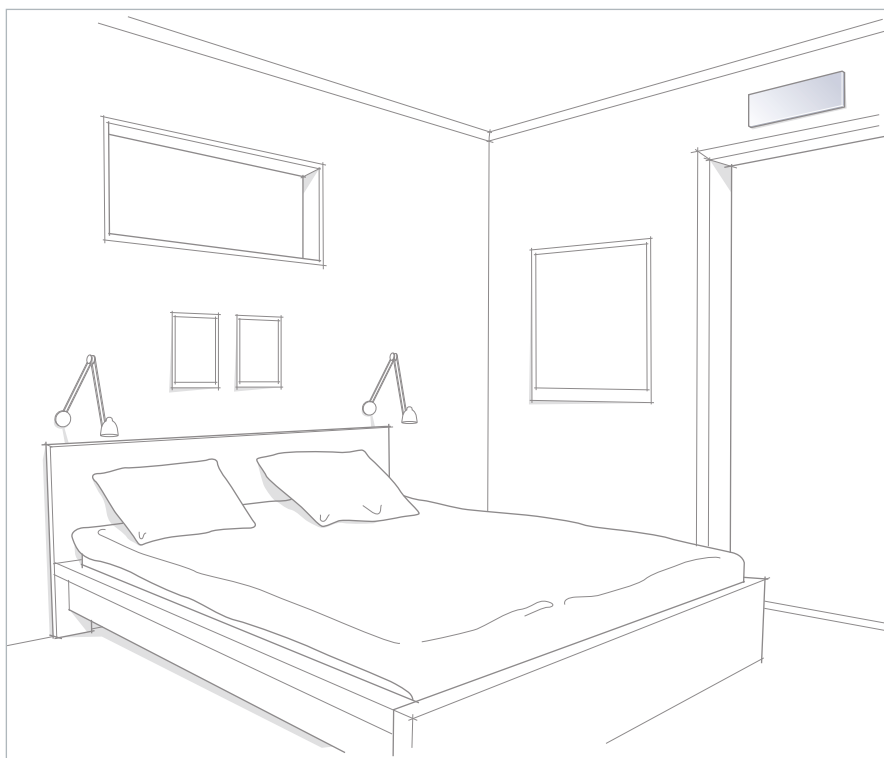


Transfer air device BYSE/BYSO

TECHNICAL DATA





BYSE/BYSO TRANSFER AIR DEVICE

Transfer air device BYSE, BYSO is intended for positioning on a wall, and can be used in most environments. The devices provide good sound attenuation and are easy to install. They are made from hot-dip galvanized steel sheet. Visible parts are powder-coated for a high surface finish and good impact and scratch resistance.

QUICK SELECTION

Size	Flow at (l/s)	
	10 Pa	15 Pa
BYSO-100	16	20
BYSO-160	32	40
BYSE-300	21	25
BYSE-500	32	38
BYSE-700	44	55
BYSE-850	56	70

SPECIFICATIONS

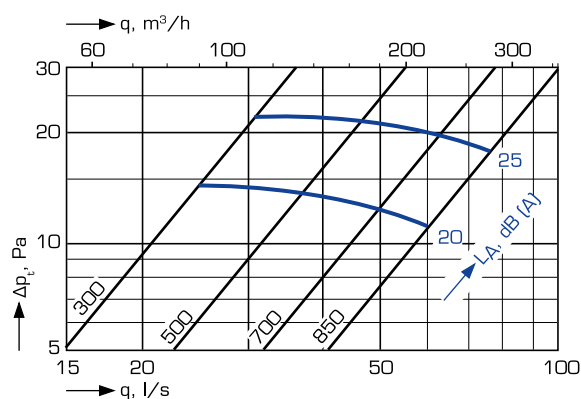
- Good sound attenuation
- Easy to install

PRODUCT CODE EXAMPLE

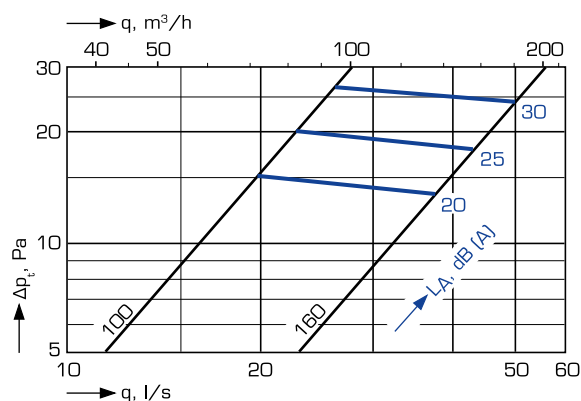
Transfer air device BYSE-500

SELECTION AND SOUND DATA

TRANSFER AIR VIA TRANSFER AIR DEVICE BYSE



TRANSFER AIR VIA TRANSFER AIR DEVICE BYSO



SOUND POWER LEVEL L_w - BYSE

BYSE	Correction of sound level K_{oct} (dB) at octave bands, middle frequency (Hz)							
	63	125	250	500	1000	2000	4000	8000
All	8	7	4	2	0	-12	-19	-19

SOUND POWER LEVEL L_w - BYSO

BYSO	Correction of sound level K_{oct} (dB) at octave bands, middle frequency (Hz)							
	63	125	250	500	1000	2000	4000	8000
100	8	2	0	3	1	-11	-19	-21
160	13	7	5	5	-3	-13	-19	-22

SOUND ATTENUATION, TRANSFER AIR DEVICE

The ability of a transfer air device to provide sufficient sound attenuation is determined by calculating the reduction index for the wall including the transfer air device. Note that the door, which is usually the weakest link, must also be included in the calculation.

BYSE	Sound insulation value $D_{n,e,w}$ (dB)
300	29
500	29
700	28
850	28
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

BYSE-500

Area of the wall: $S = 13 \text{ m}^2$

Attenuation of the wall: $R_s = 35 \text{ dB}$

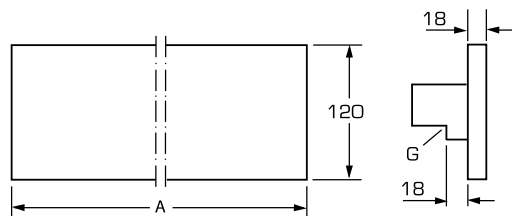
Sound insulation value $D_{n,e,w} = 29 \text{ dB}$

$$R_{tot} = 10 \times \log[13/(13 \times 10^{-35/10} + 10 \text{ m}^2 \times 10^{-29/10})] = 28,9 \text{ dB}$$

DIMENSIONS AND INSTALLATION

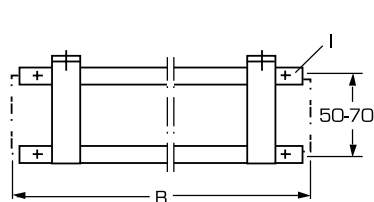
DIMENSIONS AND WEIGHTS

BYSE cover plate



G = Distance plate

BYSE fixing plate



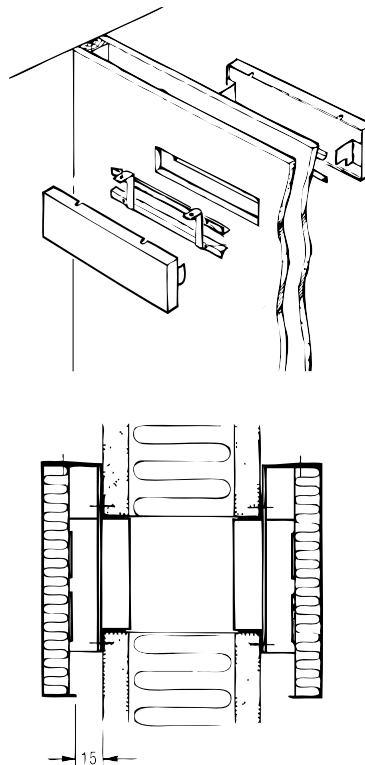
I = Fixing hole Ø5

Size	A (mm)	B (mm)	Hole ¹⁾ (mm)	Weight (kg)
300	360	300	300 x 50	1.2
500	560	500	500 x 50	1.7
700	760	700	700 x 50	2.3
850	910	850	850 x 50	2.7

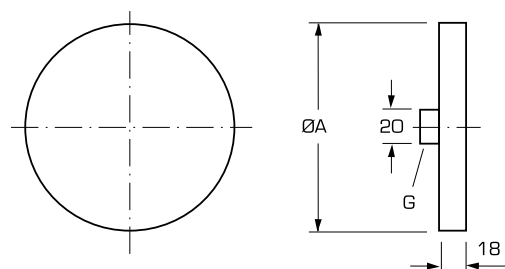
1) Tolerance + 5/- 0 mm

INSTALLATION

BYSE transfer air device in studwork wall

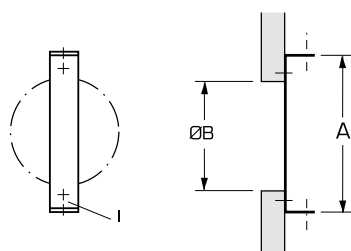


BYSO cover plate



G = Distance plate

BYSO fixing plate

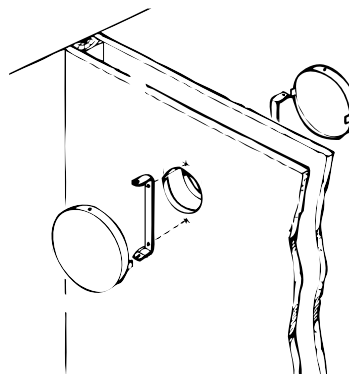


I = Fixing hole Ø5

Size	A (mm)	Hole ¹⁾ (mm)	Weight (kg)
100	250	100	0.9
160	350	160	1.5

1) Tolerance + 5/- 0 mm

BYSO transfer air device in studwork wall



GENERAL AND PRODUCT CODE

EXECUTION AND FUNCTION

Transfer air devices BYSE, BYSO are intended for positioning in a wall, and can be used in most environments. BYSE and BYSO include front panels and clamps. Wall grommet not included in the delivery.

The front panels of the device are lined internally with a sound attenuating material.

MATERIAL AND SURFACE FINISH

The devices are made of hot-dip galvanized steel sheet. Visible parts are powder-coated for a high surface finish and good impact and scratch resistance.

Standard colour is white (RAL 9003). Other colours are available on special order.

Sound attenuating material is polyester fibre.

INSTRUCTIONS

Directions for installation, adjustment and care are set out in detail in our technical instruction which accompanies each product. The instruction is also accessible on www.flaktgroup.com.

TECHNICAL DATA AND DIMENSIONING

For complete design details, please see the FläktGroup product selection program. The program can be found online at www.flaktgroup.com.

DESCRIPTIVE TEXT

Transfer air device BYSE/BYSO manufactured by FläktGroup.

PRODUCT CODE

Transfer air device

BYSE-aaa

Transfer air device, special colour

BYSE-aaa-E

Size, nominal width in mm (aaa)

300, 500, 700, 850

A BYSE includes two cover plates and two mounting frames.

Transfer air device

BYSO-aaa

Transfer air device, special colour

BYSO-aaa-E

Size, nominal width in mm (aaa)

100, 160

A BYSO includes two cover plates and two mounting frames.



FläktGroup is the European market leader for smart and energy efficient Indoor Air and Critical Air solutions to support every application area. We offer our customers innovative technologies, high quality and outstanding performance supported by more than a century of accumulated industry experience. The widest product range in the market, and strong market presence in 65 countries worldwide, guarantee that we are always by your side.

PRODUCT FUNCTIONS BY FLÄKTGROUP

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Air Conditioning & Heating | Controls | Service



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