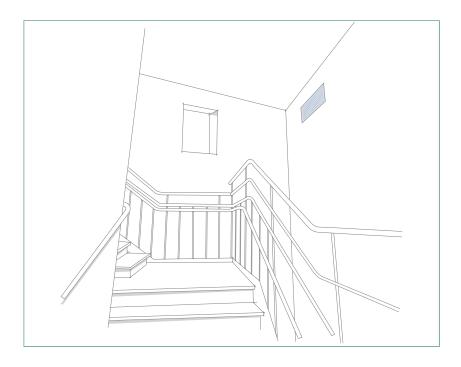


AVS, AVSL, SI Grilles







AVS, AVSL and SI grilles are designed for use as supply air devices for e.g. in offices and commercial premises. They are also suitable for exhaust and transfer air and have adjustable spread patterns and throws. The grilles which are intended for mounting on a wall, on the floor, on a window sill or in the ceiling, can be completed with mounting frame K or connection box TG/TGE, which has a silent measurement damper. As accessory there is also adjusting device S which makes it possible to adjust the air flow.

Quick Selection

Supply air without connection box

Grill model	Air flow range I/s at sound level			
	25 dB(A)	30 dB(A)	35 dB(A)	
AVS-aaaaa-100	60 - 240	70 - 295	82 - 330	
AVS-aaaaa-150	110 - 330	135 - 400	150 - 460	
AVS-aaaaa-200	135 - 410	160 - 500	190 - 580	
AVS-aaaaa-300	260 - 520	300 - 640	360 - 760	
AVS-aaaaa-400	380 - 650	450 - 790	520 - 900	
AVS-aaaaa-500	500 - 810	600 - 990	700 - 1150	
SI-aaaaa-100	45 - 210	50 - 250	60 - 290	
SI-aaaaa-150	85 - 300	100 - 350	120 - 400	
SI-aaaaa-200	110 - 380	130 - 440	150 - 510	
SI-aaaaa-300	210 - 500	250 - 600	300 - 700	
SI-aaaaa-400	330 - 650	400 - 750	460 - 890	
SI-aaaaa-500	480 - 810	550 - 950	640 - 1150	

Specifications

- Low sound level.
- · Can be mounted without mounting frame.
- Easy to adjust.

Product code example Grille AVS-800-400

Connection box supply air TG-1000-100-A

Connection box exhaust air TGE-1000-100-B

AIRTREND Ltd. Predstavništvo u Beogradu Kumanovska 14 11000 Beograd Tel: 011 3836886, 3085740

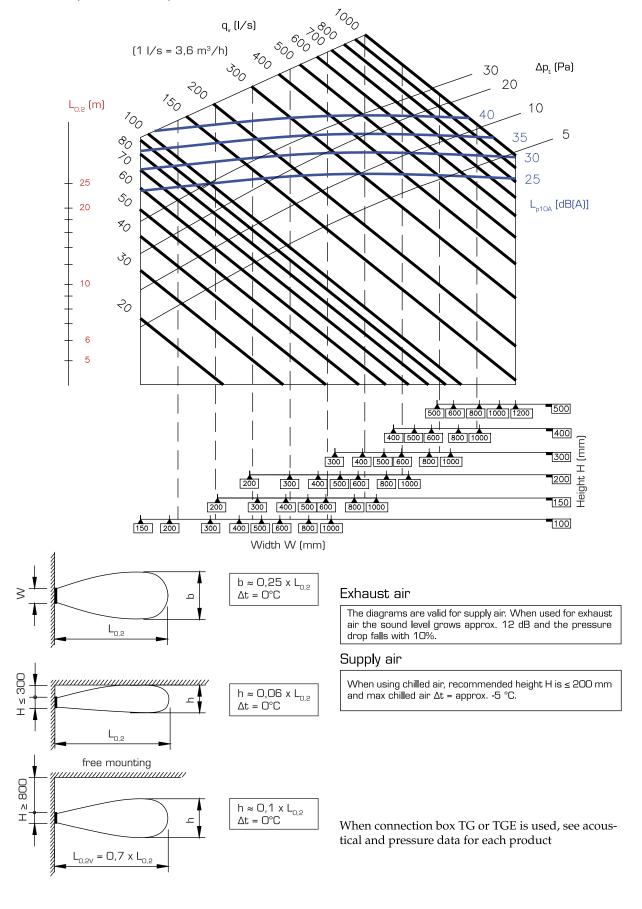
Faks: 011 3444113 e-mail: gobrid@eunet.rs web: www.airtrend.rs

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AVS Dimensioning

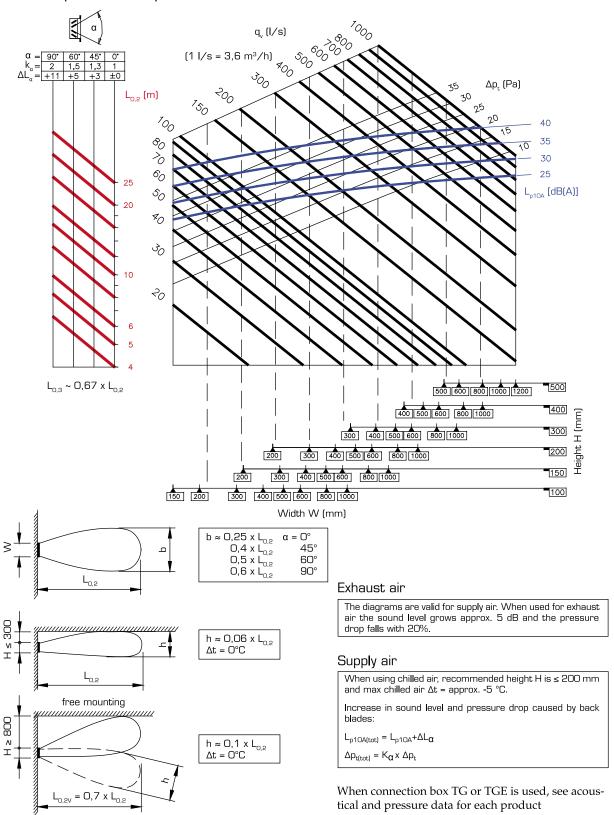
Air flow, pressure drop, sound level





SI Dimensioning

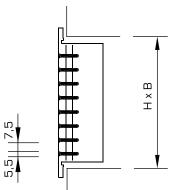
Air flow, pressure drop, sound level



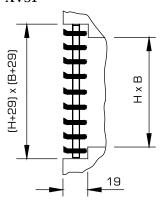


Dimensions

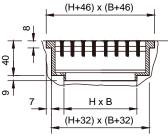




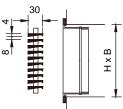
AVS1



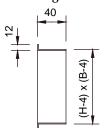
AVSL



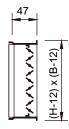
SI



Mounting frame K



Adjusting device S

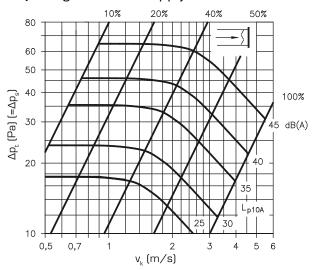


For dimensions H and W see below heading "Dimensioning" on previous page.

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Adjusting device S

Adjusting device S, supply air



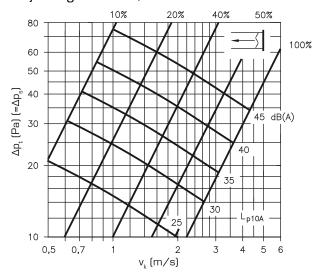
Sound level of adjusting device

$$L_{A10s} = L_{A10} + K_A$$

Velocity of the face area: $v_k = q_v / (W \times H) [(m^3/s)/m^2]$ Influence of the face area (Ak) to the sound pressure level:

A _k =	0,03	0,06	0,12	0,2	0,4	m2
K _A	±O	+3	+8	+11	+15	dB

Adjusting device S, exhaust air



Total sound level of grille and adjusting device:

Difference of sound levels between grille and adjusting device	0 – 1	2 - 3	4 - 9	≥10	dB
Addition to the higher sound pressure level	3	2	1	0	dB



General

Construction

AVS: horizontal fixed front blades.

AVS1: front blades only without frame

AVSL: firm floor grille equipped with mounting frame, blades as in AVS (window sill use)

AVS-15, AVS1-15, AVSL-15: as above, but blades at 15° angle

SI: horizontal fixed front blades in demountable louvre assembly (flow pattern can be directed 8° or 18° angle upwards and downwards by turning the blade section) and vertical directional back blades

AVS and SI grilles, larger than width W>1500 and/or height H>1000 and AVSL grilles, larger than width W>1500 and/or height H>600 are available with modular construction. In case of modular construction the dimensions of the installation hole (WxH in mm) should be stated. AVS grilles are available also as continuous ribbon. Max. height of the adjusting device S is 600 mm. Adjusting devices, larger than width W>600 are available with modular construction.

Material and surface finish

The grilles are manufactured from aluminium profiles. Mounting frame K and adjusting device S are manufactured from hot galvanized sheet steel. The regulation blades are manufactured from aluminium.

AVS and SI devices are powder coated for a high surface finish and good impact and scratch resistance. To special order the AVSL is also available in colours.

Standard colour white RAL-9010. Other colours on request.

Installation

The AVS and SI grilles are fitted into mounting frame K or connection box TG with springs or screwed directly on the wall or ceiling. If the grille is screwed on the ceiling, this should be stated in the order.

The springs are ready in all sizes, screw holes in sizes W>600 mm or H>300 mm. If screw holes are needed for a smaller grille, this should be stated in the order.

For the installation methods of grilles AVS1 and AVSL see the dimension drawings.

Placement	AVS	AVSL	AVS1	SI
Wall, supply and exhaust	0		0	0
Ceiling, supply and exhaust	0		0	
Window sill, supply				0
Floor, supply and exhaust		0		

Instructions

Instructions for installation, adjustment and maintenance are described in detail in our technical instructions also available on the Internet at www.flaktgroup.com.

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Technical data

For complete dimensioning, please see FläktGroup product selection program. This is applicable especially when connection box TG/TGE is in use because device and box is not accounted for in the catalogue material.

Contact our nearest sales office for further information.

Descriptive text

Grille e.g. AVS in size 500 x 100 mm manufactured by FläktGroup.



Product code

Grille SI-aaaa-bbb (supply, exhaust, transfer air) AVS-aaaa-bbb

AVS-aaaa-bbb-15 AVS1-aaaa-bbb AVS1-aaaa-bbb-15 AVSL-aaaa-bbb

Width, mm (aaaa) Height, mm (bbb) Blades at 15° angle (15)

Grille with mounting frame

SI-aaaa-bbb-K AVS-aaaa-bbb-K AVS-aaaa-bbb-15-K

Width, mm (aaaa) Height, mm (bbb) Mounting frame installed (K) **Accessories**

Connection box supply air TG-aaaa-bbb-c
Connection box exhaust air TGE-aaaa-bbb-c

Length of grille connection, mm (aaaa) Height of grille connection, mm (bbb)

Connection alternative (c)

A = from the side B = from the rear

C = from above / from below

Mounting frame K-aaaa-bbb Adjusting frame S-aaaa-bbb

Width of grille in mm (aaaa) Height of grille in mm (bbb)

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