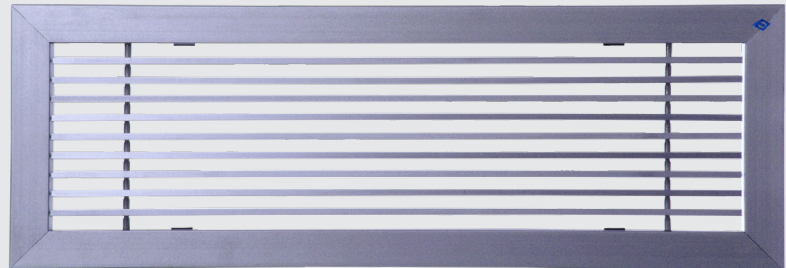


Louvered grille with
fixed straight slats

AC



Description

- Rectangular louvered grille with fixed slates for straight dispersion of supply air, suitable for most types of premises with high requirements on appearance.
- The grille is normally installed directly to a rectangular duct with a mounting frame (accessory) but can also be installed with a cleanable commissioning box of type DLKR.
- Max. recommended sub-temperature, 6 °C.

Versions

AC is supplied in three alternative versions (see image 1):

- **AC-420:** Reinforced version for floor mounting, alternatively wall or ceiling mounting med reinforcement requirements, e.g. sports halls.
- **AC-440:** Standard version for wall or ceiling mounting.
- **AC-450:** Reinforced version for recessed or molded mounting in floors alternatively walls.

Materials

- **AC:** Anodized aluminum, in either natural aluminum finish or powder coated standard white RAL 9003 color. The product can be supplied in alternative colours, please contact our sales for further inquiries.
- **DLKR:** Galvanized sheet steel, internally insulated with washable, surface-lined sound absorber.
- **RAM:** Galvanized sheet steel.

Key features

- Rectangular louvered grille for straight dispersion
- Suitable for wall, ceiling or bench top mounting
- Available in reinforced design for floor mounting
- Cleanable commissioning box DLKR, available as an option

T1: Quick selection – grille only

Size (mm) W x H	Air flow (l/s) [m³/h]			
	at 25 dB (A)		at 30 dB (A)	
200 x 100	37	[133]	44	[158]
300 x 100	52	[187]	60	[216]
400 x 100	74	[266]	85	[306]
600 x 100	125	[450]	150	[540]
500 x 200	185	[666]	222	[799]
600 x 200	220	[792]	250	[900]
800 x 200	290	[1044]	330	[1188]
1000 x 200	350	[1260]	400	[1440]

Accessories

- Mounting frame, **RAM**: Standard mounting frame for grilles from Netavent. Intended for installation of AC-420/440 without a commissioning box.
- Molding frame for floor mounted grille, version AC-450.
- Cleanable commissioning box **DLKR**, with built in measuring hose and commissioning damper, that comes in two duct connectivity options:
 - Rear duct connection, **DLKRB**.
 - Side duct connection, **DLKRS**.
- Damper, **S**: Commissioning damper for rectangular grilles from Netavent.
- Damper **LS**: Throttle damper for grilles from Netavent.

Mounting

- AC has a rectangular connecting spigot and is primarily intended for wall or floor mounting in rectangular ducts, but can also be mounted in ceilings.
- The product is normally installed with a mounting frame (accessory **RAM**), alternatively into a commissioning box.
- When installed with a commissioning box, the grille is connected directly into the box's telescopic frame.
- The commissioning box spigot is connected to a circular duct. Connection to a flexible duct is possible, but not recommended.
- When the grille is installed without a commissioning box, it should be secured with either a mounting frame (wall mounting) or a molding frame (floor mounting), see headers **Versions** respective **Accessories**.
- The mounting frame has predrilled holes (Ø6 mm) and is secured with screws or pop rivets. The product is then attached into the frame with a clip function.

Delivery form

- The product is supplied in single units. Transfer air applications require installation in pairs, please take this into account when ordering. (this also applies for the mounting frame, **RAM**).

Sizing Sound data

The following applies for the presented sound data:

- Sound pressure level, L_{PA} dB(A) is read from **Sizing charts**, where P_t (Pa) is total pressure, P_s (Pa) is static pressure and q (l/s alt. m³/h) is air flow.
- Data in table **T2: Sound attenuation – grille only** applies for grille without commissioning box including attenuation orifice.
- Correction factor, K_{OK} dB for mid-frequency in each octave band is obtained from table **T3**.
- Sound efficiency level, L_p dB is calculated according to formula $L_W = L_{PA} + K_{OK}$.
- The measurements have been made according to ISO 9614-2 and ISO 11691: 1995.

T2: Sound attenuation – grille only

Size ^{*)} (H _{nom})	Octave band, Hz (dB)							
	63	125	250	500	1000	2000	4000	8000
100	10	8	4	2	0	0	0	0
150	8	7	3	1	0	0	0	0
200	6	5	2	0	0	0	0	0

Tolerance ±3 dB

^{*)} Size listing in the table is based on nominal product height (H_{nom}) in millimeters.

T3: Correction factor, K_{OK} dB – grille only

Size	Octave band, Hz (dB)							
	63	125	250	500	1000	2000	4000	8000
All sizes	+ 6	+ 5	- 3	- 2	0	- 3	- 10	- 12

Tolerance ±3 dB

Sizing diagrams

- Sound pressure level, L_{PA} dB(A) in diagram **D1** corresponds to A-weighted sound level in the reverberant field at an equivalent absorption area of 10 m². This corresponds to 4 dB of attenuation in a room with a volume of 25 m³ with normal acoustic absorption.
- Diagram **D1** applies to grille without a commissioning box.
- Dimensions in diagram **D1** refer to product size (WxH in mm).
- For room types with other absorption than normal, see table **T4: Acoustic absorption for other room types**.

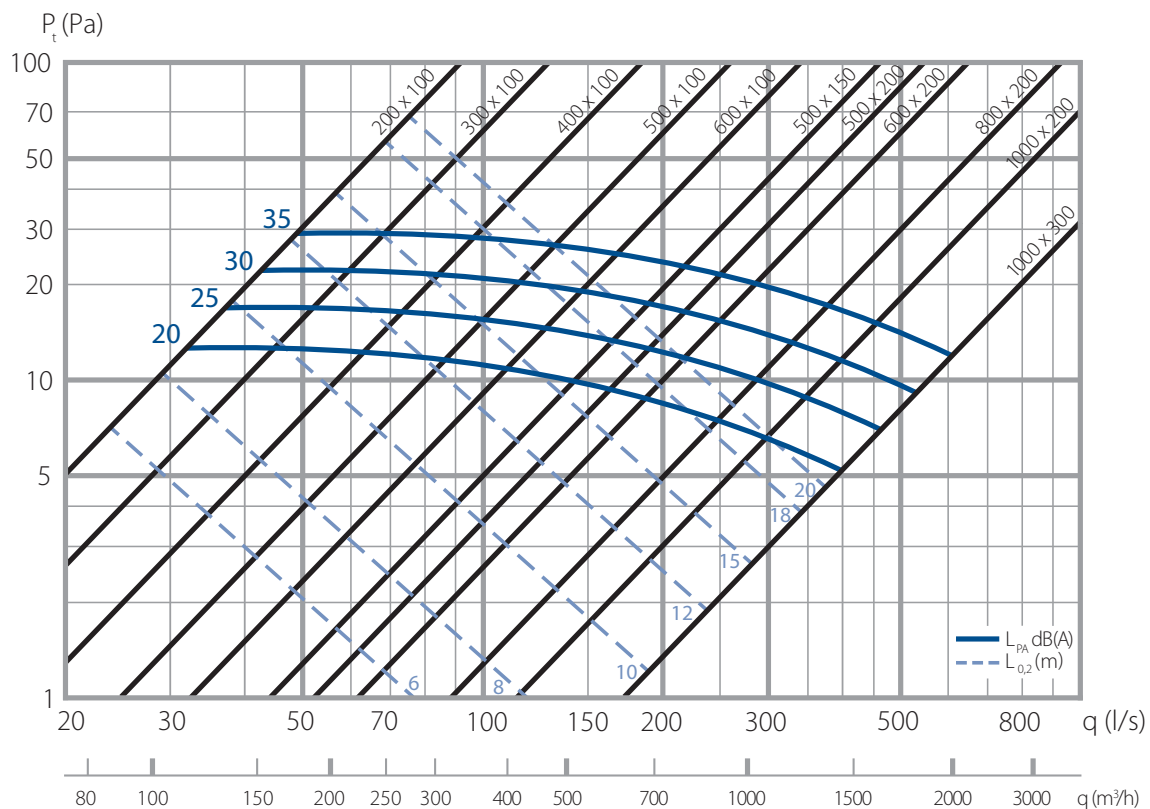
T4: Acoustic absorption for other room types

Room volume (m ³)	Room type	Correction (dB)
25	Hard room / low absorption	+ 2
	Absorbing room	- 2
150	Hard room / low absorption	- 3
	Normal absorption	- 5
	Absorbing room	- 7

Abbreviations and formulas

Designation	Unit	Formula
q = Airflow	l/s alt. m ³ /h	
P _t = Total pressure	Pa	
L _{PA} = Sound pressure level	dB (A)	
L _{0,2} = Throw length	m	
K _{OK} = Correction factor	–	
L _p = Sound pressure	dB	$L_p = L_{PA} + K_{OK}$
L _W = Sound power level	dB	$L_W = L_{PA} + K_{OK}$
A _F = Free Area	m ²	$A_F = W_{nom} \times H_{nom} \times k$
k = Correction factor, free area	–	
W _{nom} / W _{real} = Width _{/real}	mm	
H _{nom} / H _{real} = Height _{nominal/real}	mm	
B _C = Rear connection	mm (Ø)	
S _C = Side connection	mm (Ø)	
U _C = Top connection	mm (Ø)	

D1: AC – grille only, standard sizes



Order specification