

KH

VENTILATION GRILLES WITH A MESH FOR HYGIENE PURPOSES



SMAY



Characteristics:

A rectangular air supply or exhaust grille made of stainless steel, with a mesh, for hygiene purposes.

Intended use:

The KH ventilation grilles are designed for low- and medium-pressure ventilation systems with higher hygiene requirements, e.g. hospitals. When installed with a filter (RM+F) they can be used as lignin traps.

Design

The grille structure can withstand frequent cleaning and is prepared for quick assembly/disassembly. Grille frames are made of stainless steel 1.4301 (304 according to AISI, 0H18N9 according to PN). The covering mesh screen is made of stainless steel in cut-drawn technology and offers clearance of 65%.

Additional supports are used when:

C and D ≥ 825 mm – 1 support

Net surface area

Approximate net surface area of the KH grilles:

$$A = 65\% \times [(C-40) \times (D-40)]$$



The technical data of the grilles, including pressure loss, noise level and stream ranges, is available at smay.eu, in the document titled "Flow Characteristics for Grilles and Diffusers"

Installation

The grilles can be installed:

- with latches invisible from the outside + an assembling frame or a plenum box

Dimensions

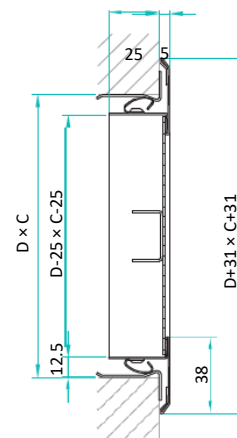


Figure 1. Dimensions of a KH grille fixed with latches

Standard dimensions of the KH grilles:

- width **C = 75–1,225 mm**
- height **D = 75–625 mm**

We can make custom-sized grilles or a set of multiple grilles upon request.



Figure 2. Connection between a KH grille and a round duct by means of an NDS connection pipe



KH – Ventilation grilles for hygiene purposes

When ordering, please provide information according to the following pattern:

KH – <C> x <D> - SN / <ADD>

Where:

C	mounting hole width in mm
D	mounting hole height in mm
SN	finish: stainless steel, quality 1.4301 (304 according to AISI, 0H18N9 according to PN)
ADD	specify additional accessories here, as below

Accessories**:

GA	backward damper made of aluminium
GSN	concurrent damper made of stainless steel
GTN	slot damper made of stainless steel
RM	assembling frame made of galvanised or stainless steel
RM-F	assembling frame made of galvanised or stainless steel, with a filter
NDS<S>	NDS connection pipe for round ducts (in the <S> field provide requested diameter of the connection pipe in mm)

* optional values – if not specified, default values will be used

** for more information on accessories, see the accessories sheet

Order example: **KH-525x225-SN / GSN**



Blocks for REVIT software, a selection programme and certificates are available at www.smay.pl.

Plenum box as per the configuration below:

<SR> <I> - <H> - <K><D><R><P>

Where:

I	insulation*
	none – no insulation
	t – insulated
H	plenum box height in mm*
K	connection pipe position*:
	b – side
	g – top
D	connection pipe diameter in mm*
R	damper in a connection pipe*
	none – no damper
	P – damper adjusted from outside the box
	Pc – damper adjusted from inside the box with a tie rod
	Pd – damper adjusted from inside the box with a lever
P	design*
	S0 – galvanized steel
SN	- stainless steel, quality 1.4301 (304 according to AISI, 0H18N9 according to PN)
SM	- stainless steel, quality 1.4404 (316L according to AISI, 0H17N14M2 according to PN)