

Description and application

Hygienic outlet grilles are used in low and medium-pressure extract air ventilation installation in rooms with high hygiene requirements, such as operating rooms. Primary task hygienic outlet grilles is to prevent entry of pollutants into the ventilation ducts, typical for operating room (so-called catcher dressing materials like lignin). The construction of the grille is adapted to frequently disassembly in order to thoroughly clean.

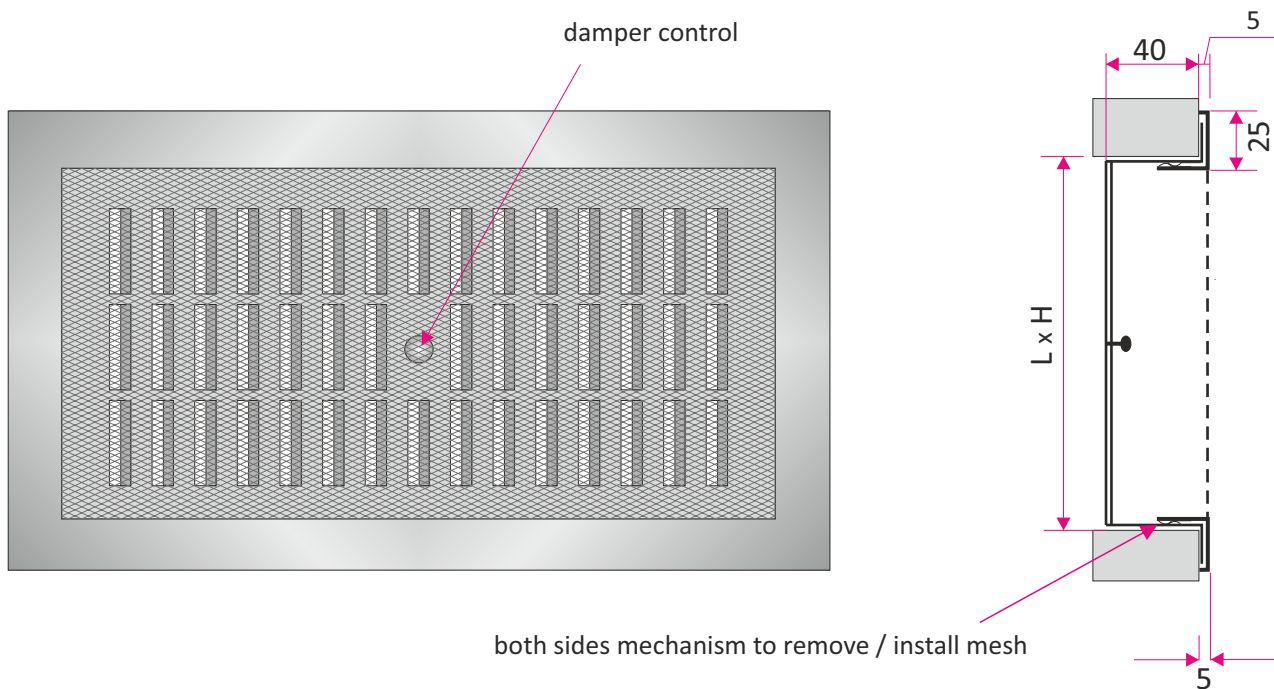
Grille have Hygienic Certificate

Material and workmanship

All components of grille are made of stainless steel (type 1.4301 or 1.4404). Front expanded mesh provides optimum clearance, and also the appropriate mesh density that is required to catch small scraps like lignin. Mounting frame is equipped with a slot damper, which adjustment is possible after disassembling mesh. On request it is also possible to make grille with filter (in this option in place of the damper is mounted additional mesh). The manufacturer reserves the right to make technological changes.

Size

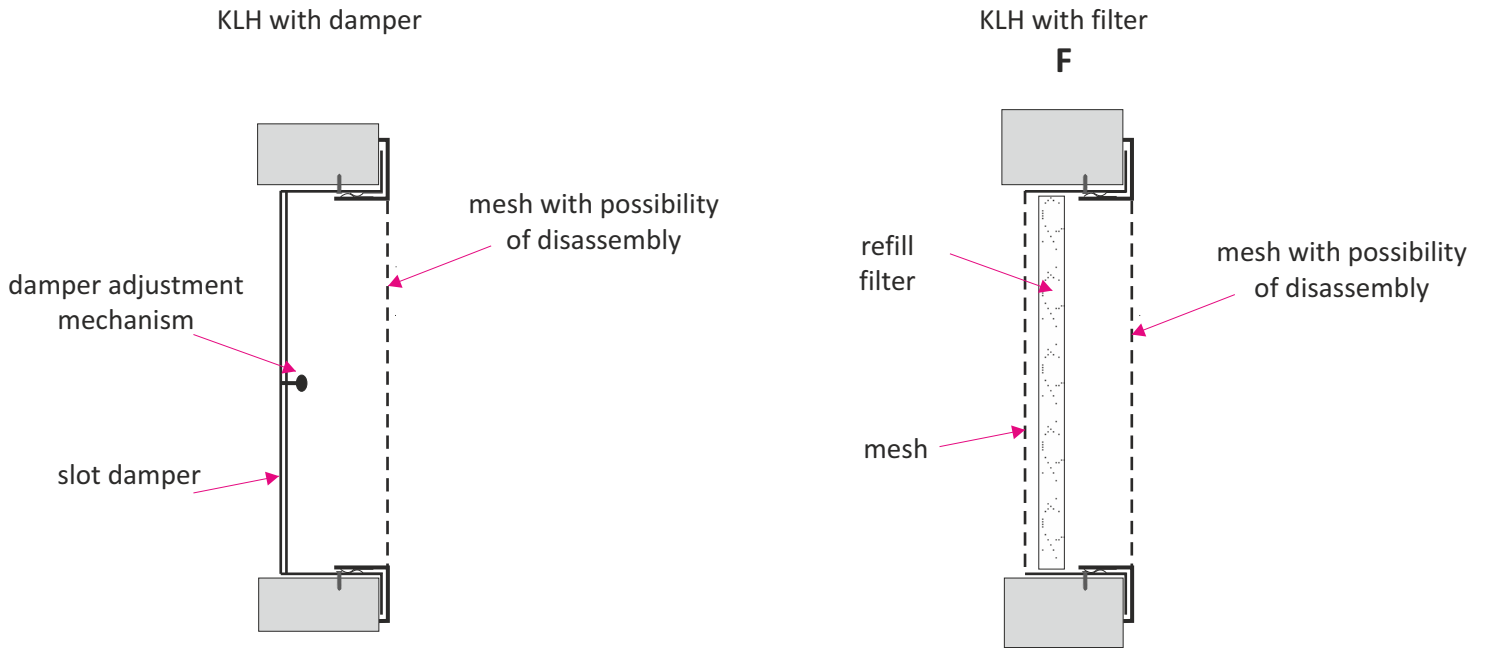
Grilles are manufactured to order. Grille dimension by the customer request(LxH).
L and H - dimensions of the grille mounting hole in mm.



Technical data - Effective surface of air flow (example size)

H \ L	125	225	325	425	525	625	825	1025	1225
mm	Aef (m ²) effective area								
75	0,005	0,008	0,012	0,016	0,020	0,023	0,031	0,038	0,046
125	0,008	0,014	0,020	0,027	0,033	0,039	0,052	0,064	0,077
225	0,014	0,025	0,037	0,048	0,059	0,070	0,093	0,115	0,139
325	0,020	0,037	0,053	0,069	0,085	0,101	0,134	0,167	0,199
425	0,027	0,048	0,069	0,090	0,112	0,133	0,175	0,218	0,260
525	0,033	0,059	0,085	0,112	0,138	0,164	0,217	0,269	0,322
625	0,039	0,070	0,101	0,133	0,164	0,195	0,258	0,320	0,383

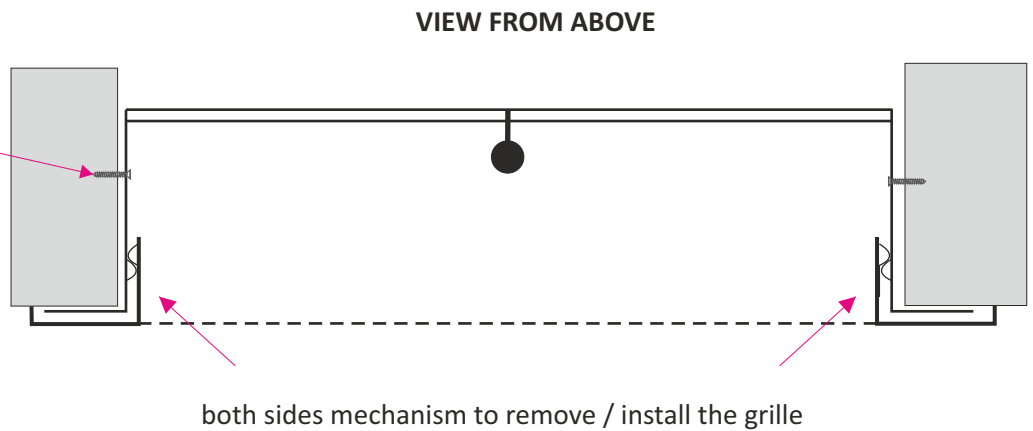
Manufacturing options



Methods of mounting

Assembly grilles in duct

- In order to mount grille you should remove the front part of the grille.



The method of placing an order

Please make orders according to the following formula:

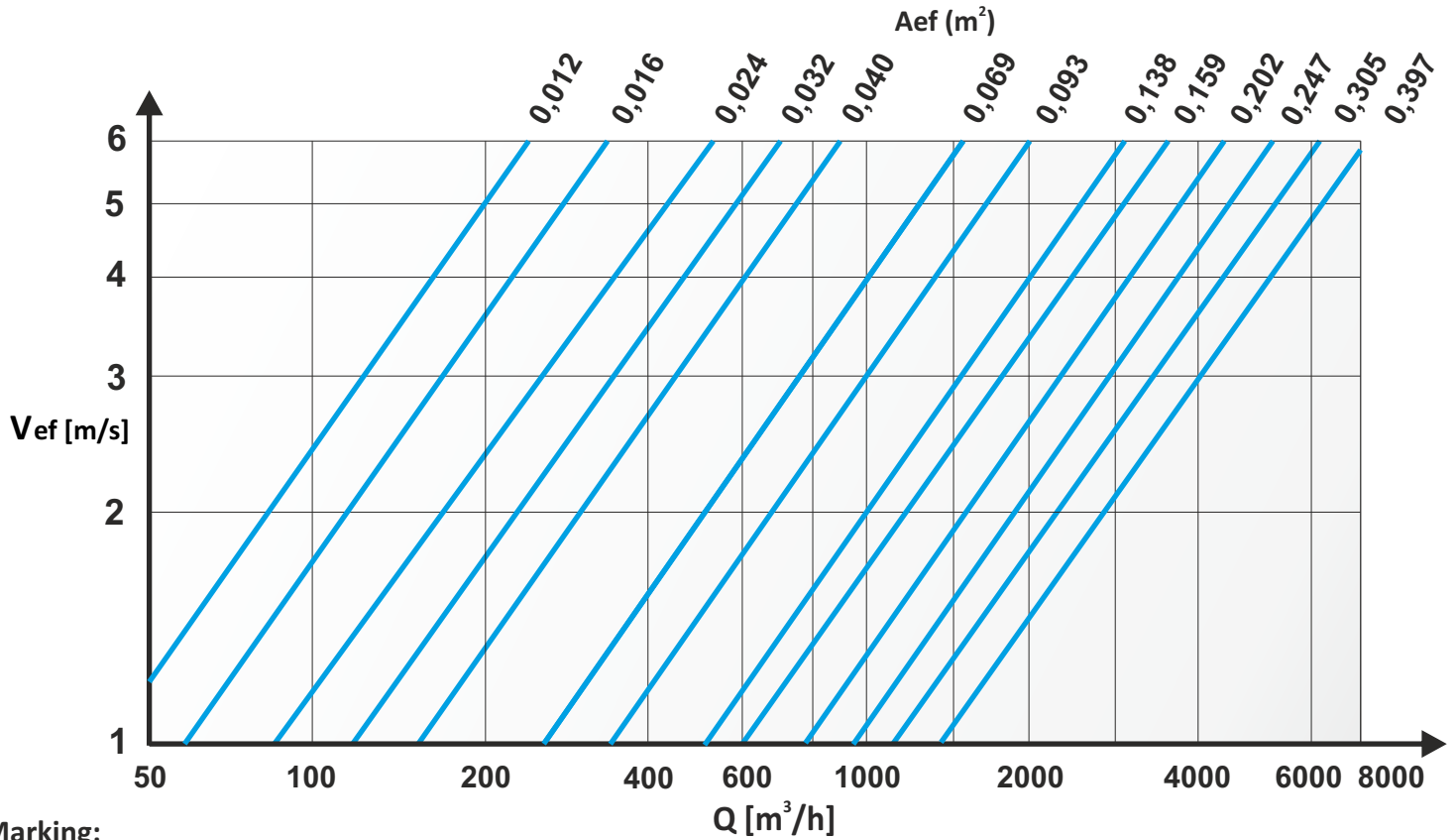
KLH / 'LxH' / 'W' / 'M'

- 'LxH' mounting hole / duct size
- 'W' manufacturing options
 - GS - grille with slot damper (standard) *
 - F - grille with refill filter
- 'M' material
 - KO - stainless steel (type 1.4301 or 1.4404)*

* - If you don't give the information will be used standard parameters.

Technical data

Dependence of exhaust air speed V_{ef} (m/s) depending on the effective area of grille and air volume flow Q (m³/h)



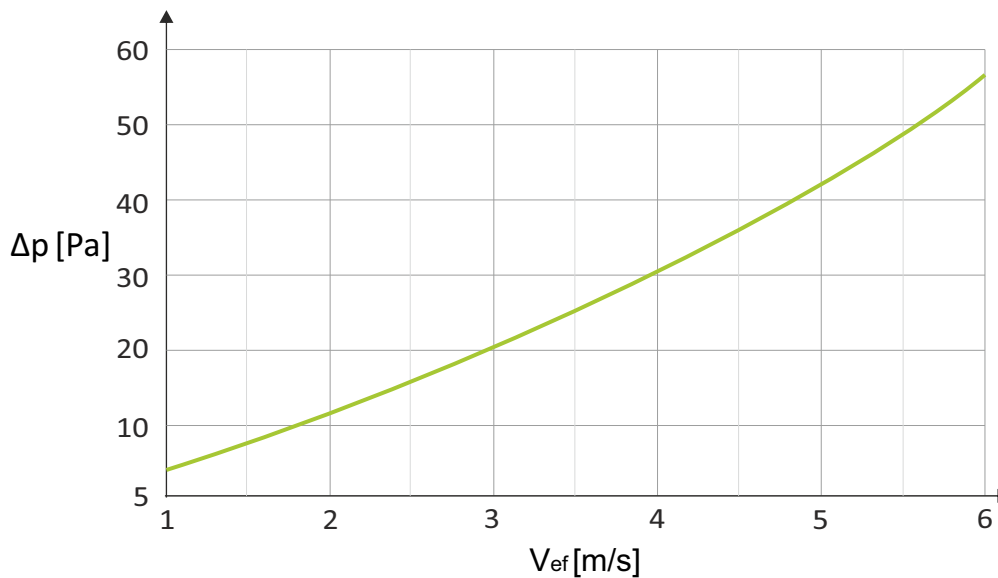
Marking:

Q [m³/h]- air volume flow

A_{ef} [m²]- effective area grille

V_{ef} [m/s]- speed of extract air

Pressure drop Δp (Pa) depending on speed of extract air V_{ef} (m/s)

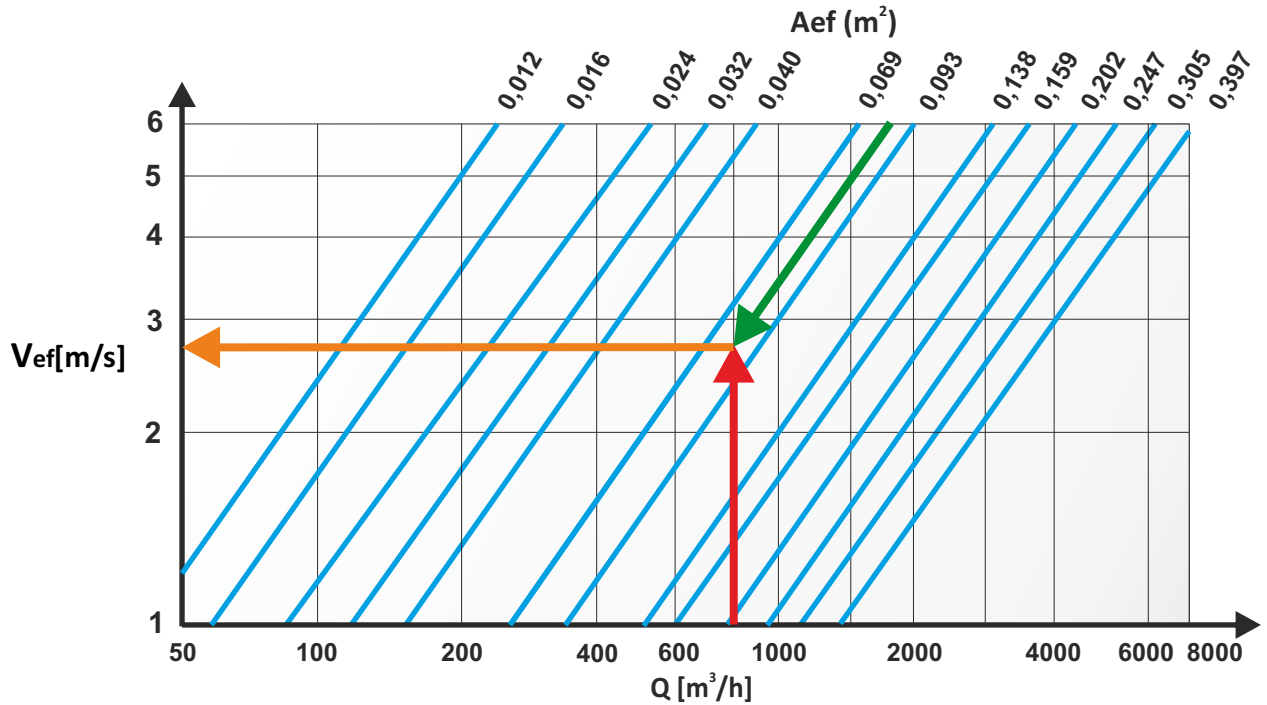


Marking:

V_{ef} [m/s] - speed of extract air

Δp [Pa] - pressure drop

EXAMPLE



EXAMPLE:

dimensions of grille: 525x325

- $A_{ef} = 0,85$ [m²] (Read from the table)
- air volume flow $Q = 800$ m³/h

Reading from graph:

- effective speed $V_{ef} = 2,8$ m/s
- pressure drop $\Delta p = 18$ Pa

