

Description and application

External exhaust wall louvres for ventilation ducts with circular and rectangular cross section. They are use in istallations ventilation exhaust as the ending of ducts. They have a freely floating slats when ventilator is working.

External exhaust louvres has Hygienic Certificate HK/K/0522/03/2016

Material and workmanship

External exhaust louvres are divided into types:

- louvres with a rectangular section,
- louvres with a rectangular section with circular connection.

Louvres are executed in standard: frame made of galvanized steel and aluminium blades.

Options of execution the frame:

- stainless steel
- aluminum

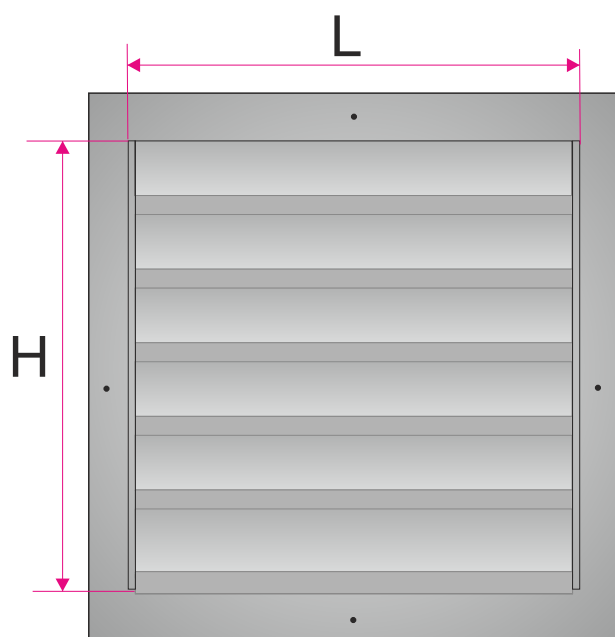
On request painted for any RAL color.

Size

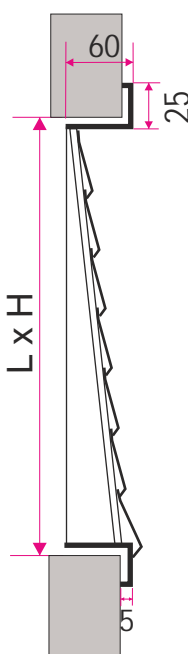
Louvres are manufactured to order. Louvre dimension by the customer request.

L - width of the mounting hole

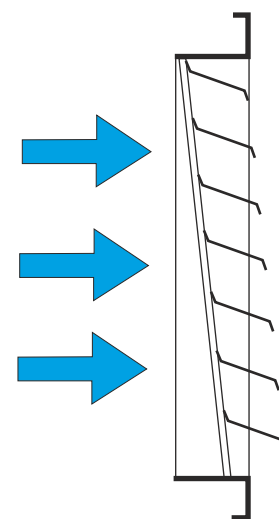
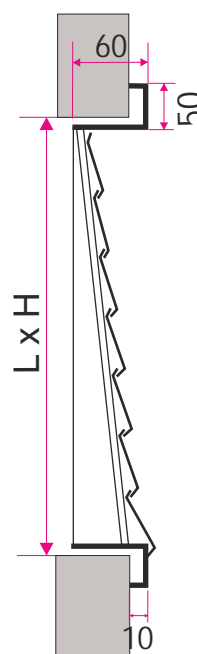
H - height of the mounting hole



**For
L,H<1000mm**



**For
L,H>1000mm**



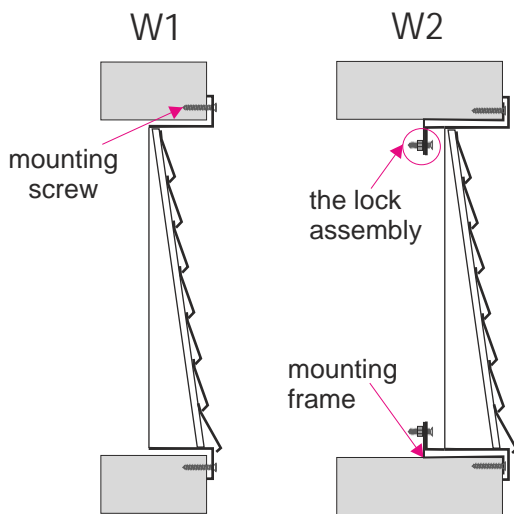
Frame width:

25mm for L or H ≤ 1000mm

50mm for L or H > 1000mm

Methods of mounting

Louvres are mounted using the screws and the mounting holes in the frame (W1). It is possible to mount the louvre with additional mounting frame for invisible assembly, which allows you to keep the frame without mounting holes (W2).



Installation invisible by mounting screws and locks assembly in RM frame - the preferred option in the case of louvre shared in the substructure.

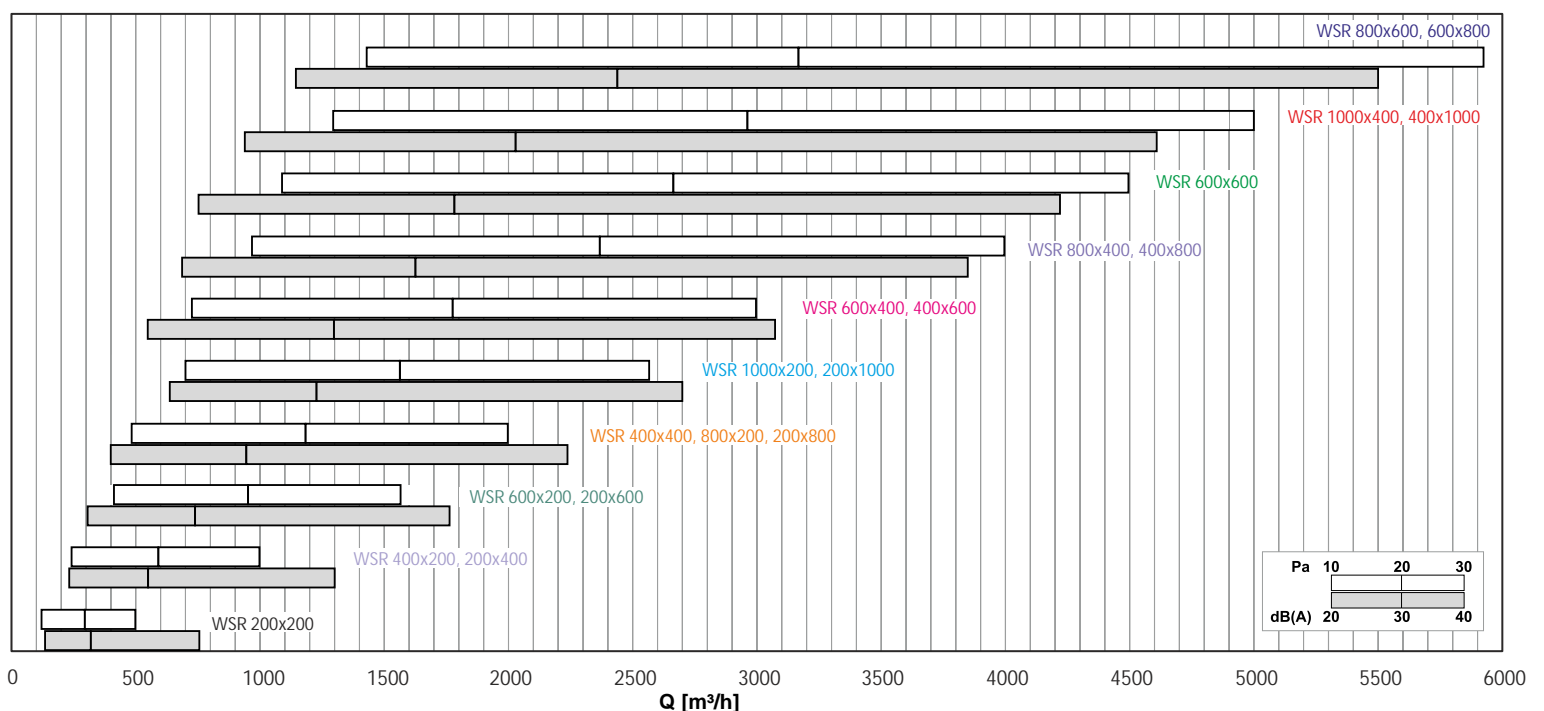
Assembling visible through screws and mounting holes in the louvre frame

Effective area A_{ef} louvre (when it's complete open)

$H_{[mm]} \backslash L_{[mm]}$	200	400	600	800	1000	1200	1600	2000
A_{ef} (m²) effective area external exhaust wall louvres WSR								
200	0,036	0,073	0,109	0,145	0,181	0,21	0,28	0,36
400	0,073	0,145	0,218	0,291	0,363	0,43	0,57	0,72
600	0,109	0,218	0,327	0,436	0,545	0,64	0,86	1,08
800	0,145	0,291	0,436	0,581	0,727	0,86	1,15	1,44
1000	0,181	0,363	0,545	0,727	0,909	1,08	1,44	1,80
1200	0,21	0,43	0,64	0,86	1,08	1,29	1,72	2,16
1600	0,28	0,57	0,86	1,15	1,44	1,72	2,30	2,88
2000	0,36	0,72	1,08	1,44	1,80	2,16	2,88	3,60

Technical data

The dependence of pressure drop p (Pa) and acoustic power L_{WA} (dB) depending on the air flow Q (m³/h)



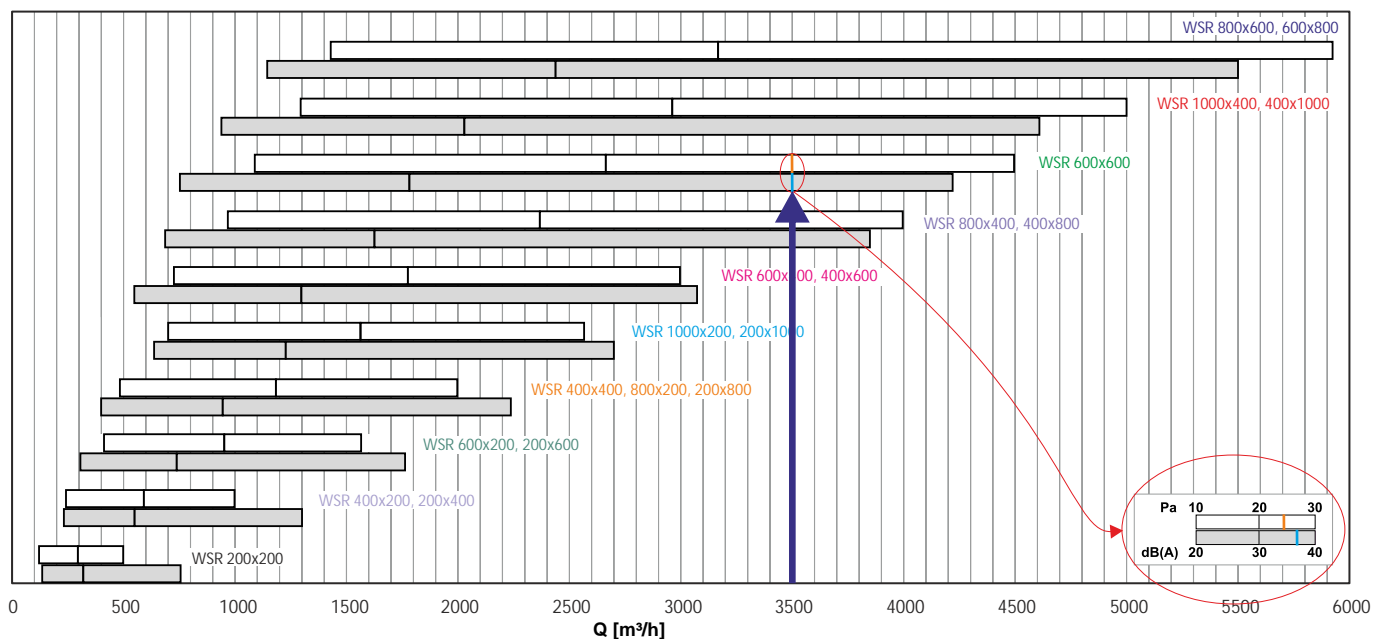
EXAMPLE

- Air volume flow $Q=3500 \text{ m}^3/\text{h}$
- dimensions of louvre: 600×600 ($A_{ef} = 0,327 \text{ m}^2$)

Reading from the graph:

- pressure drop on the louvre $p=24 \text{ Pa}$
- acoustic power $L_{wa}=37 \text{ dB(A)}$

$H_{[mm]} \backslash L_{[mm]}$	200	400	600
	$A_{ef} \text{ (m}^2\text{)}$		
200	0,036	0,073	0,109
400	0,073	0,145	0,218
600	0,109	0,218	0,327



The method of placing an order

Please make orders according to the following formula:

WSR-1 / 'LxH' / 'RAL' / 'M' / 'W'

- 'LxH' - mounting hole size (width x height) in mm
- 'RAL' - louvre color according to RAL palette (standard RAL9006*)
- 'M' - material (frame):
 - OC - powder coated steel*
 - AL - aluminum
 - KO - stainless steel / acid proof steel (gat. 1.4301 or 1.4404)
- 'W' - mounting option:
 - W1 - visible assembly with screws through the holes in louvre front frame*

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