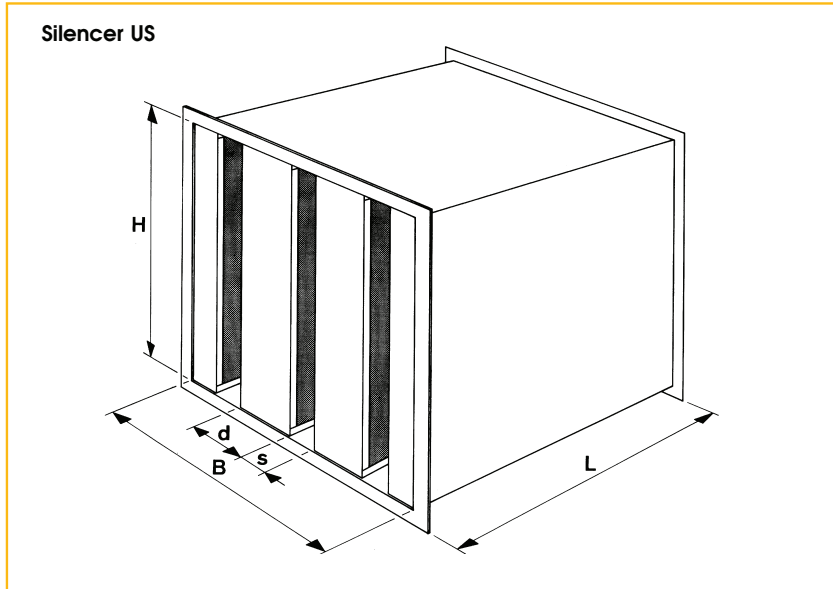


# SILENCER US

## Installation dimensions



## Application

The rectangular silencers, type US, are used to reduce noise in ducts of ventilation and airconditioning installations. They offer a high noise reduction through a combination of acoustic materials enclosed in a galvanised casing. Pressure loss and regenerated noise are also reduced to the minimum.

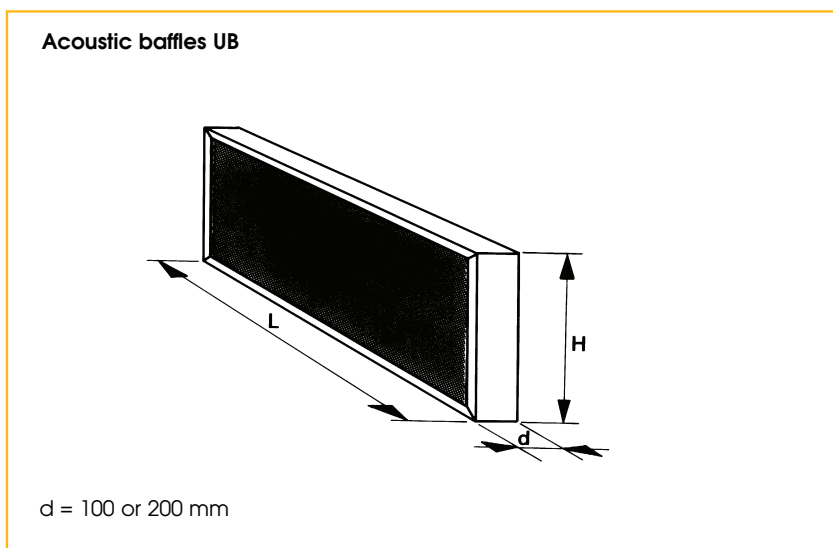
Internal acoustic baffles are also separately available for assembling in ducts.

Type	Airway width s	Thickness splitters d	Thickness baffles d/2
1	75	200	100
2	100	200	100
3	125	200	100
4	150	200	100
5	200	200	100

## Technical information

### Characteristics

- connection flanges : SBM-frames 30 mm
- available sizes :
  - length : 600, 900, 1200, 1500, 1800, 2100, 2400 mm
  - height : from 300 mm up to 2400 mm, in steps of 50 mm
  - width :
    - type 1 in multiples of 275 mm, from 550 up to 2200 mm
    - 2 in multiples of 300 mm, from 600 up to 2400 mm
    - 3 in multiples of 325 mm, from 650 up to 1950 mm
    - 4 in multiples of 350 mm, from 700 up to 2100 mm
    - 5 in multiples of 400 mm, from 800 up to 2400 mm
- acoustic baffles are also separately available in widths from 100 and 200 mm



All dimensions in mm.

# SILENCER US

## Construction

- Casing made out of galvanised sheet steel - thickness 1 mm
- Partitions : galvanised sheet steel - thickness 0,8 mm
- Sound absorbing material glass fibre covered with black incombustible neoprene, reducing risk of disintegration of sound absorbing material up to a velocity of 20 m/s.

## Specifications description

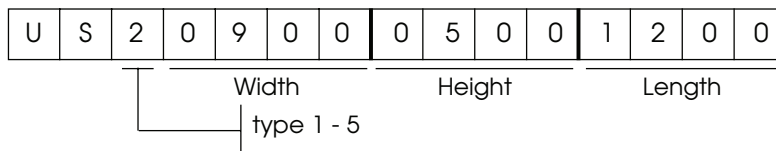
### Example :

Silencer for mounting in air ducts with a slot width of 100 mm and a baffle width of 200 mm. Casing in galvanised sheet steel, equipped with SBM-frames as connection flanges.

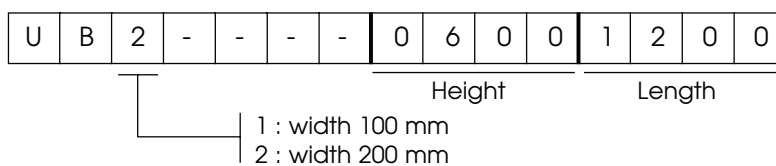
**Type : US2**  
dim. ... x ... x ... mm (BxHxL)

## How to order

Silencer, type 2, dimensions 900x500x1200 mm (width x height x length).



Acoustic baffles, width 200 mm, dimensions 600x1200 mm (height x length)



# SILENCER US

## Pressure loss • regenerated noise

$v_k$ (m/s)*	Pressure loss (Pa)					Regenerated noise (dB)
	type 1	type 2	type 3	type 4	type 5	
1,5	14	9	6	4	2	20
2,0	26	16	10	7	4	20 — 25
2,5	40	24	16	10	6	20 — 25
3,0	56	36	24	16	8	25 — 30
3,5	80	48	32	22	12	30 — 35
4,0	104	64	40	28	16	35 — 40
4,5	136	80	52	34	20	40 — 45
5,0	-	96	64	40	24	45 — 50
6,0	-	144	96	64	32	50 — 55

\*  $v_k$  = air velocity calculated on the total section B x H (width x height)

# SILENCER US

## Attenuation

Type	L (mm)	Attenuation (dB)					
		125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz
1	600	9	16	25	31	30	26
	900	14	23	41	49	46	41
	1200	15	25	50	50	50	47
	1500	18	34	50	50	50	50
	1800	21	37	50	50	50	50
	2100	24	41	50	50	50	50
2	600	8	15	21	30	29	20
	900	12	20	33	42	38	29
	1200	13	21	41	48	43	34
	1500	16	31	48	50	48	43
	1800	17	32	48	50	50	50
	2100	20	37	50	50	50	50
	2400	24	38	50	50	50	50
3	600	6	13	19	25	24	14
	900	10	19	33	40	36	22
	1200	12	20	37	44	38	24
	1500	14	27	42	47	45	29
	1800	15	28	43	48	49	31
	2100	17	32	45	50	49	35
	2400	20	33	48	50	49	38
4	900	11	18	29	34	33	18
	1200	11	19	34	40	34	19
	1500	13	26	42	42	43	25
	1800	14	27	42	47	48	28
	2100	16	31	43	50	49	32
	2400	18	33	46	50	49	35
5	1200	9	15	29	35	31	14
	1500	10	22	34	37	37	16
	1800	11	23	35	39	42	16
	2100	12	25	36	42	45	20
	2400	14	28	41	42	45	22