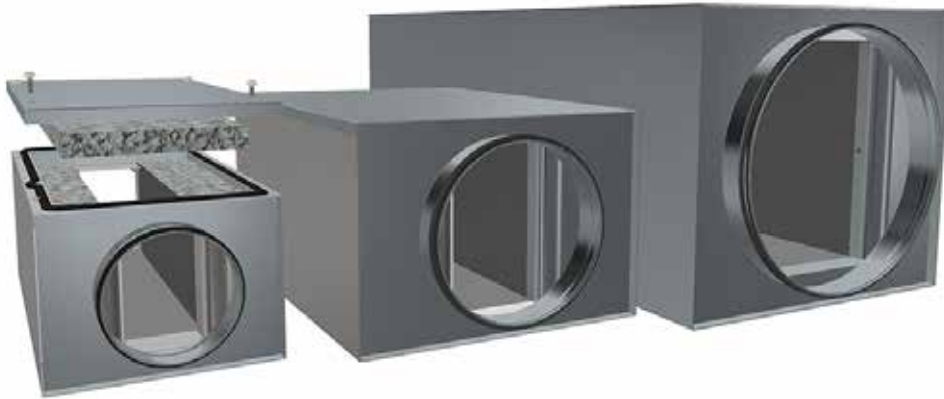


Circular straight low-built silencer KVAPL



Description

KVAPL is a rectangular attenuator with circular connections and a low installation height.

Attenuation material is mineral wool covered with the textile to prevent fibres coming out. The KVAPL's are made from galvanized steel sheet. Attenuator can be cleaned by rotating nylon brushes, vacuum cleaner or damp cloth. Openable model; can be used as a cleaning door and possible to replace the acoustic infill.

Fulfils tightness class C.

Tested according to ISO 7235 standard.

Perforated sheet on top of the acoustic material, special materials, sizes and flanges on request. Please contact Lindab sales.

The KVAPL comes in two different designs.

Model:

3.= Attenuator with mineral wool attenuation material.

4.= Openable Attenuator with mineral wool attenuation material.

To select the appropriate attenuator and optimize connection size and length for the best performance please use our online tool **LindQST**

Visit www.lindQST.com to find out more.

Order code

Product	KVAPL	d	l	m
KVAPL				
Connection (d), in mm ($\varnothing d_{1 \text{ nom}}$)				
100 – 630				
Length (l), in mm (l_{nom})				
300, 600 and 1000 mm ($\varnothing 100 - 200$ mm)				
600 and 1000 mm ($\varnothing 250 - 315$ mm)				
600 and 1250 mm ($\varnothing 400 - 630$ mm)				
Model (m)				
3, 4				

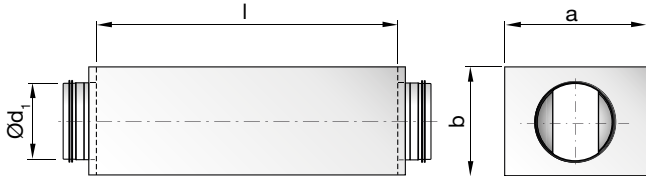
Example: KVAPL 200 - 1000 - 3



Circular straight low-built silencer KVAPL

Dimensions and sound data

KVAPL model 3 & 4



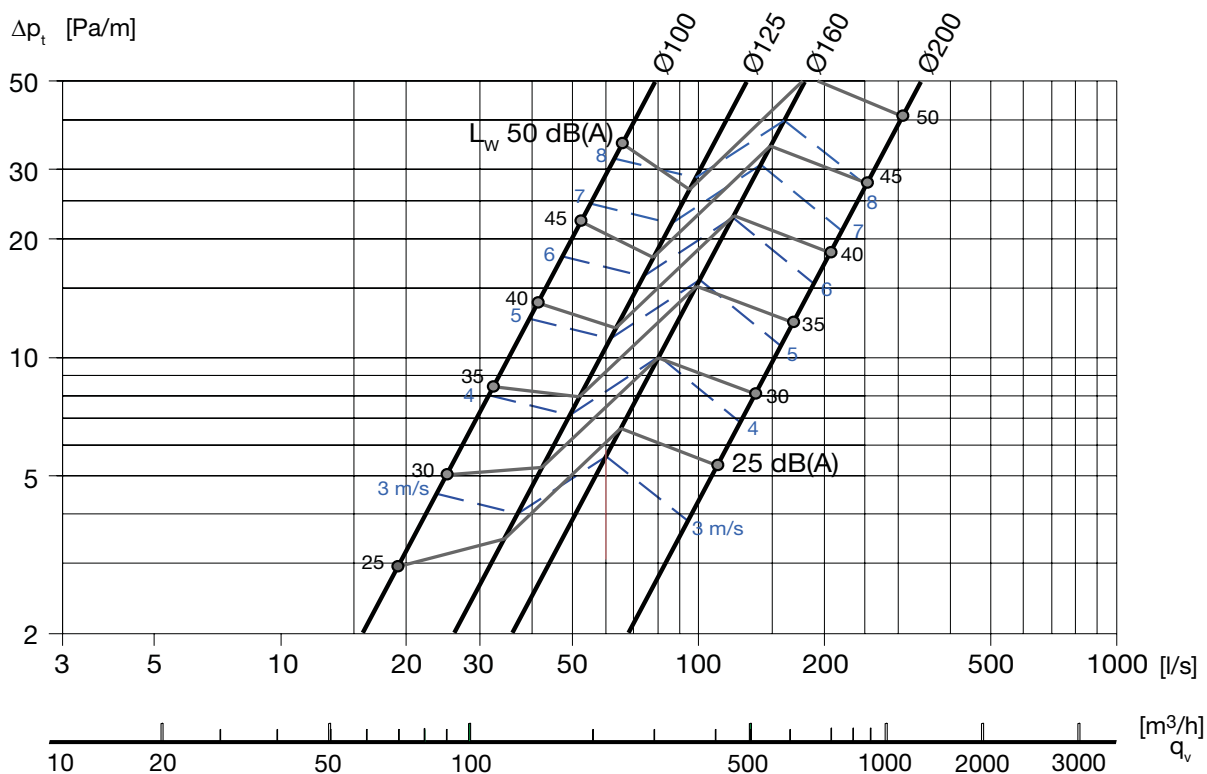
Ød ₁ [nom]	l [mm]	a x b [mm] [mm]		Insertion loss [dB] for centre frequency [Hz]								Model	
				63	125	250	500	1k	2k	4k	8k	3 [kg]	4 [kg]
100	300	252	154	7	9	12	20	23	23	20	12	2,3	2,5
100	600	252	154	9	15	19	38	50	50	49	28	3,8	4,0
100	1000	252	154	14	22	28	47	50	50	50	42	5,8	6,1
125	300	263	177	5	9	11	16	19	19	15	9	2,7	2,8
125	600	263	177	8	13	18	34	44	47	41	24	4,2	4,5
125	1000	263	177	11	21	28	46	50	50	50	41	6,3	6,7
160	300	280	212	4	6	10	14	16	16	11	8	3,1	3,2
160	600	280	212	10	9	17	28	36	41	28	19	4,8	5,0
160	1000	280	212	13	15	27	38	50	50	47	29	7,2	7,3
200	300	361	253	4	4	9	10	14	13	10	8	3,9	4,1
200	600	361	253	8	9	17	20	31	31	20	14	6,3	6,6
200	1000	361	253	14	12	27	36	50	50	32	20	9,4	9,9
250	600	431	303	7	7	13	16	26	22	16	13	8,9	9,2
250	1000	431	303	13	10	21	27	43	37	24	18	13,0	13,5
315	600	458	368	6	5	11	14	22	18	10	10	10,3	10,9
315	1000	458	368	11	7	18	25	38	29	17	13	14,6	15,5
400	600	518	453	5	5	9	13	14	10	8	8	15,9	16,7
400	1250	518	453	7	9	18	25	32	19	12	13	26,0	28,9
500	600	702	555	4	5	7	12	12	8	7	7	21,8	22,7
500	1250	702	555	6	9	13	23	26	14	10	11	36,4	38,2
630	600	851	684	4	5	6	11	10	7	6	6	29,2	30,4
630	1250	851	684	6	9	12	21	20	11	9	10	48,4	50,7



Circular straight low-built silencer KVAPL

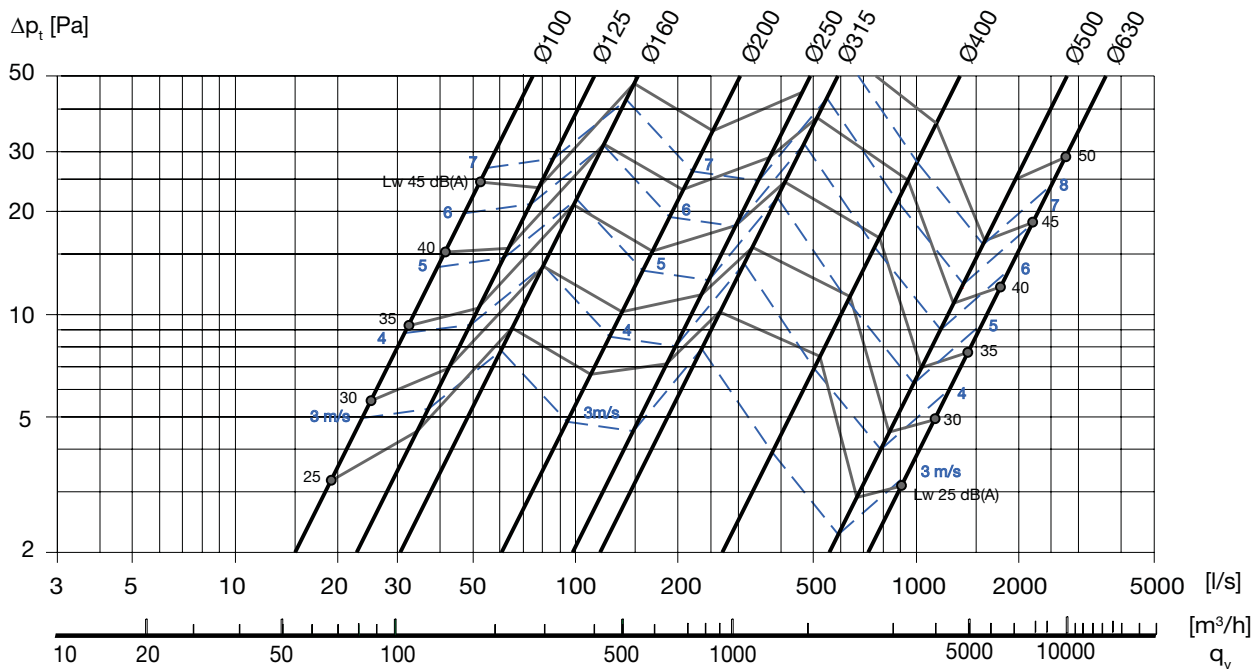
Model 3 and 4

Pressure loss and sound generation for 300 mm long attenuators



Model 3 and 4

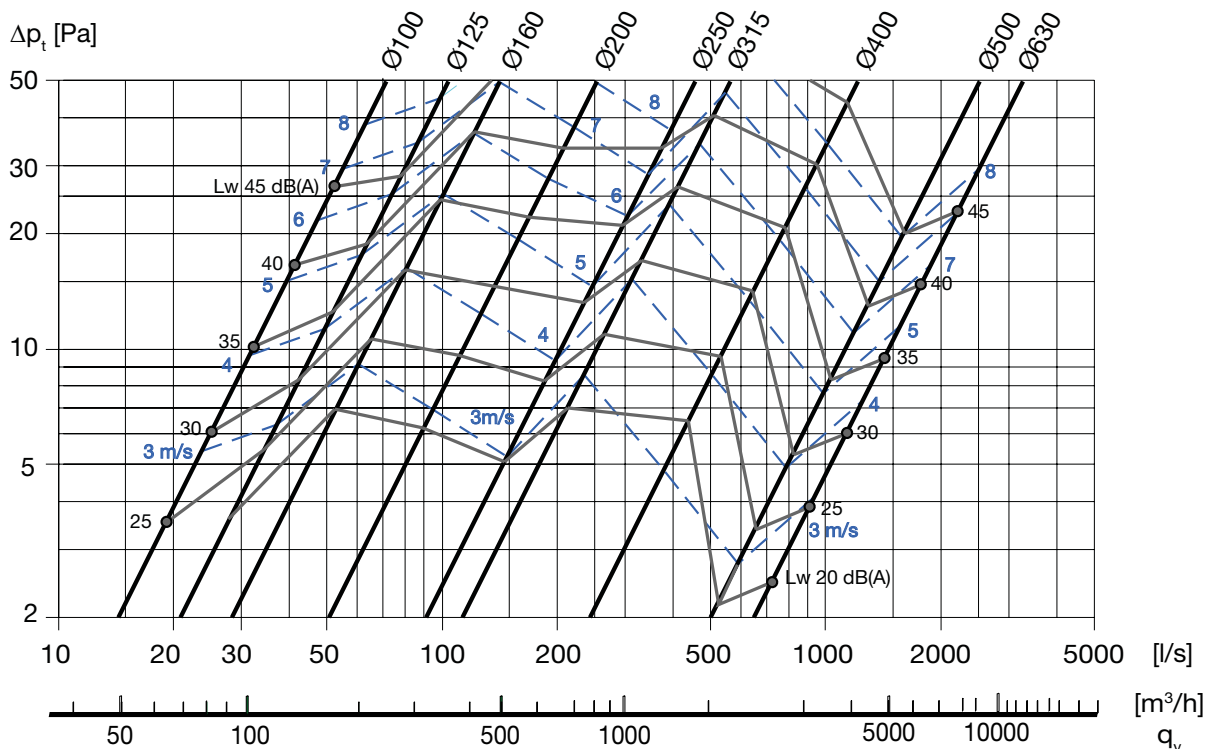
Pressure loss and sound generation for 600 mm long attenuators



Circular straight low-built silencer KVAPL

Model 3 and 4

Pressure loss and sound generation for 1000 and 1250 mm long attenuators ($\varnothing d_1$ 400 - 630 \rightarrow l) = 1250 mm)



$K_{w_{oct}}$ correction tables model 3 and 4.

$\varnothing d_1$ [mm]	Correction, $K_{w_{oct}}$ (dB) for centre frequency [Hz]							
	63	125	250	500	1k	2k	4k	8k
63	1	5	1	-2	-5	-14	-20	-31
80	0	3	2	-1	-7	-12	-17	-28
100	2	5	-1	1	-9	-19	-24	-42
125	7	6	2	0	-9	-15	-21	-41
160	8	3	1	0	-8	-14	-19	-37
200	4	4	4	-1	-9	-13	-20	-31
250	5	3	1	-2	-5	-10	-16	-28
315	7	5	2	-3	-5	-11	-17	-30
400	10	6	2	-2	-6	-13	-21	-27
500	6	6	2	-2	-6	-14	-22	-39
630	7	7	2	-2	-6	-15	-22	-40
Tol. +/-	3	3	2	3	3	4	4	5

Sound power levels per octave band $L_{w_{oct}}$ are calculated by adding the octave band corrections K_{oct} to the total power level L_{WA} from the graphs.

$$L_{w_{oct}} = L_{WA} + K_{oct}$$

