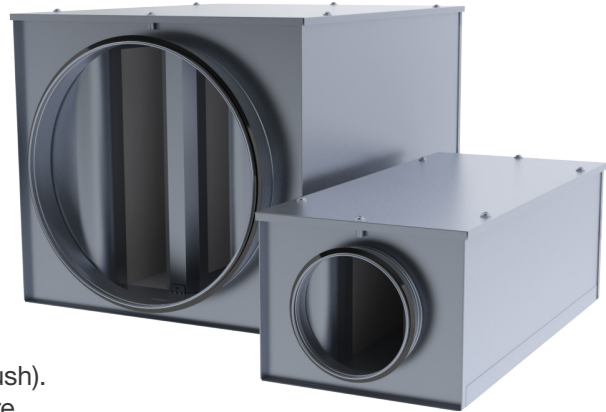


**NTFA/NTPA Round Openable Silencer**

NTFA/NTPA – openable rectangular silencer with round duct connections and without perforated sheet inside. Suitable for general ventilation system silencer, especially in situations where the silencer dimensions should be smaller and the absorption values should be good.

**Advantages:**

- Silencer's dimensions are minimized while maintaining excellent noise reduction characteristics.
- Low pressure drop due to streamlined geometry.
- Insulation material is resistant to cleaning (nylon brush).
- Insulation material coating does not absorb moisture.
- Used as a cleaning and inspection door.



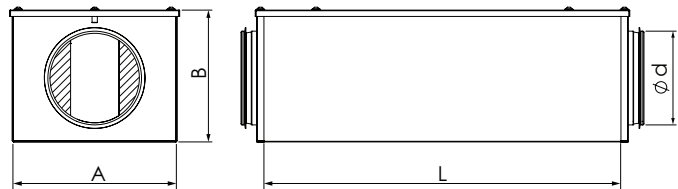
**Design and Dimensions**

NTFA/NTPA-silencer's outer shell is made of galvanized sheet steel. Connections are with rubber gaskets. Sound absorption duct element with good attenuation characteristics is made from mineral wool (Cleantec coated) or synthetic material. Used synthetic insulation is classified as M1.

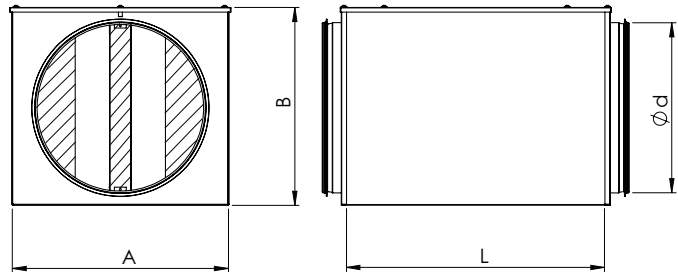
Silencers with Ø 400-600 includes also separate absorption element.

Standard lengths 300, 600 and 1000 mm.

Ø 100-315



Ø 400-630



**Sound Attenuation**

Sound attenuation is specified to ISO 7235, i.e. static integral attenuation for duct products.

**NTFA (absorption material mineral wool)**

Nominal size Ø d (mm)	L (mm)	A (mm)	B (mm)	Sound attenuation (dB)								Weight (kg)
				Mean frequency of octave band (Hz)								
				63	125	250	500	1000	2000	4000	8000	
100	300	210	161	7	8	11	20	22	20	20	15	3,1
100	600	210	161	9	16	19	32	41	43	40	26	4,8
100	1000	210	161	7	28	28	50	50	51	51	45	7,1
125	300	225	186	3	11	8	16	17	16	15	11	3,5
125	600	225	186	6	17	14	31	35	39	34	23	5,5
125	1000	225	186	6	24	20	49	50	50	47	31	8,0
160	300	280	221	3	5	8	13	13	16	15	11	4,5
160	600	280	221	6	9	15	23	28	31	26	19	7,0
160	1000	280	221	8	15	20	42	41	50	43	30	10,2
200	300	295	261	3	4	7	11	12	15	11	9	5,2
200	600	295	261	5	10	15	20	24	26	21	15	7,9
200	1000	295	261	7	16	25	40	48	49	40	27	11,6
250	600	325	311	7	7	13	17	22	22	17	12	9,3
250	1000	325	311	10	13	22	32	40	39	29	21	13,6
315	600	365	376	3	6	10	13	17	15	14	12	11,1
315	1000	365	376	6	9	16	22	28	25	21	17	16,2

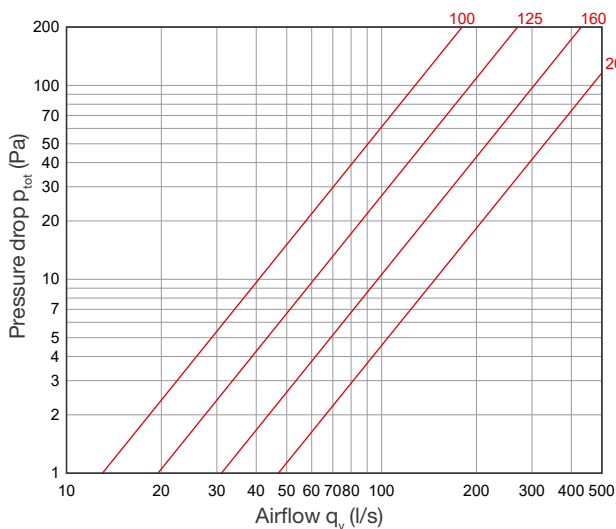
Nominal size Ø d (mm)	L (mm)	A (mm)	B (mm)	Sound attenuation (dB)								Weight (kg)
				Mean frequency of octave band (Hz)								
				63	125	250	500	1000	2000	4000	8000	
400	600	510	461	6	8	10	14	23	30	24	16	17,9
400	1000	510	461	7	14	17	24	38	44	41	27	26,1
500	600	560	561	1	9	11	20	26	26	21	16	22,1
500	1000	560	561	4	12	20	30	40	40	34	25	32,3
630	600	720	691	8	9	13	19	23	25	19	16	31,1
630	1000	720	691	13	15	21	33	39	38	32	25	46,1

NTPA (absorption material synthetic sound insulation)

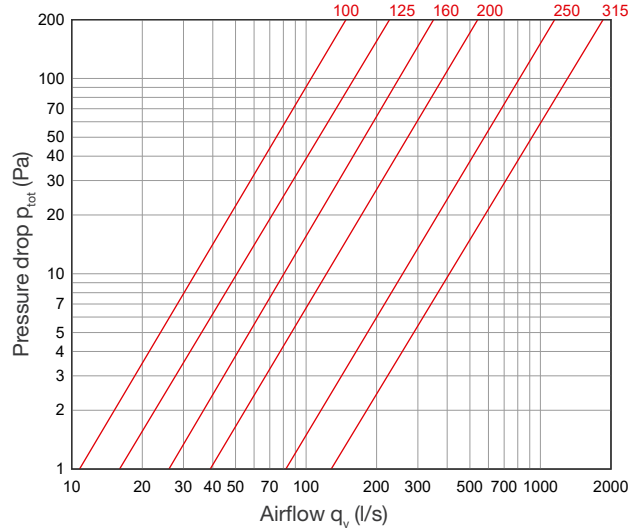
Nominal size Ø d (mm)	L (mm)	A (mm)	B (mm)	Sound attenuation (dB)								Weight (kg)
				Mean frequency of octave band (Hz)								
				63	125	250	500	1000	2000	4000	8000	
100	300	210	161	8	10	8	10	16	24	20	15	3,0
100	600	210	161	16	15	14	17	29	35	37	31	4,7
100	1000	210	161	14	22	18	29	37	46	44	43	6,9
125	300	225	186	4	11	7	11	20	20	16	12	3,4
125	600	225	186	7	14	11	18	28	33	34	23	5,4
125	1000	225	186	14	18	16	25	36	44	44	37	7,8
160	300	280	221	5	8	7	13	21	19	17	13	4,3
160	600	280	221	13	9	10	19	29	33	30	22	6,9
160	1000	280	221	13	13	16	26	37	44	44	37	10,0
200	300	295	261	4	6	7	12	17	15	12	9	5,0
200	600	295	261	16	7	11	17	28	31	24	17	7,7
200	1000	295	261	17	11	16	24	37	43	42	30	11,3
250	600	325	311	11	4	9	16	27	24	18	13	9,1
250	1000	325	311	14	8	14	22	34	39	27	18	13,3
315	600	365	376	4	5	8	14	22	16	15	12	10,8
315	1000	365	376	8	8	12	20	30	29	22	17	15,6
400	600	510	464	7	7	11	17	21	25	22	18	17,1
400	1000	510	461	8	11	15	25	33	36	35	29	24,7
500	600	560	561	0	8	10	18	24	26	23	19	21,2
500	1000	560	561	3	11	15	25	36	37	38	35	30,6
630	600	720	691	8	8	11	18	24	26	22	19	29,4
630	1000	720	691	11	12	17	27	34	37	36	27	43,1

Pressure drop for dimensions 100-315

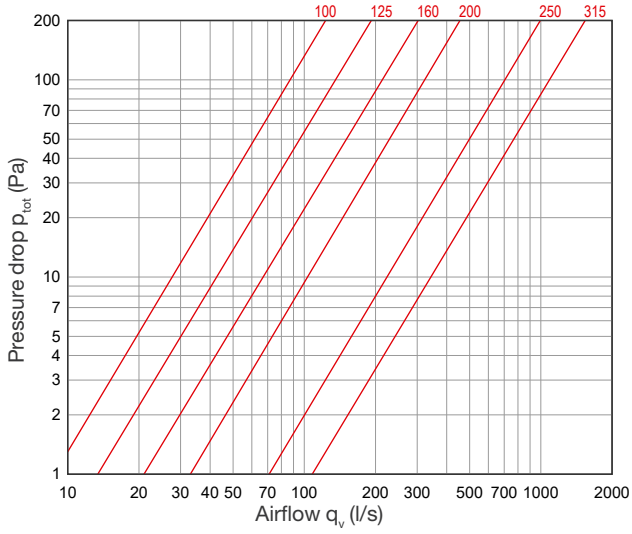
NTFA/NTPA L=300



NTFA/NTPA L=600

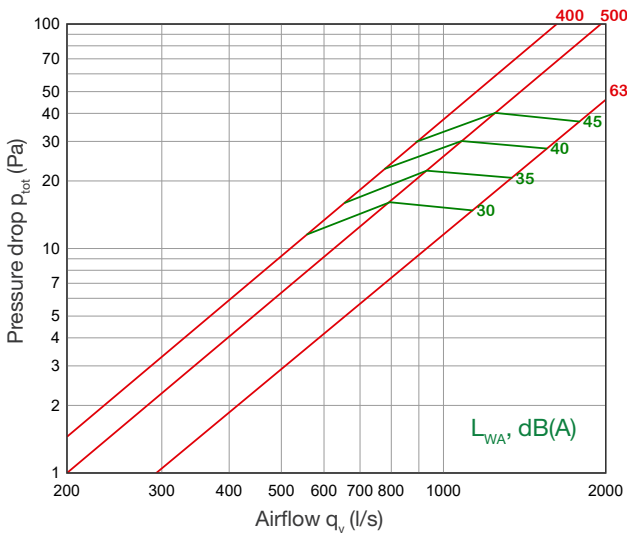


**NTFA/NTPA L= 1000**

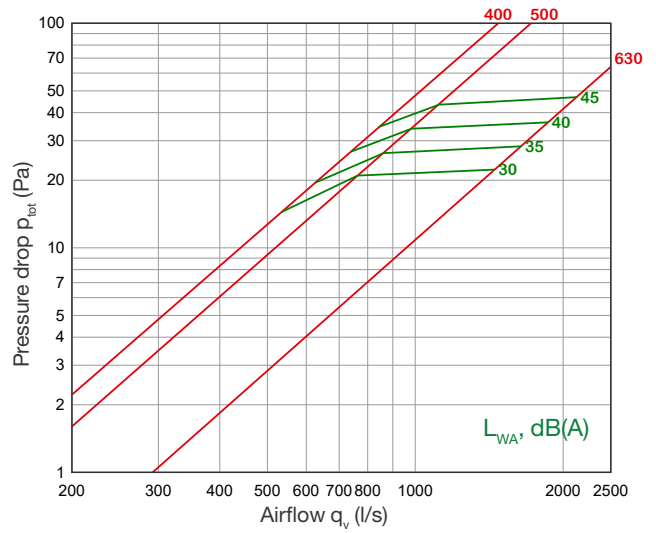


**Pressure drop for dimensions 400-630**

**NTFA/NTPA L=600**



**NTFA/NTPA L=1000**



$$L_{w,akt} = L_{WA} + K_{akt}$$

NTFA/NTPA	Sound level correction factor $K_{akt}$ (dB)							
	63	125	250	500	1k	2k	4k	8k
NTFA/NTPA 400-600	17	7	-1	-4	-5	-9	-15	-21
NTFA/NTPA 400-1000	14	5	0	-4	-5	-8	-15	-22
NTFA/NTPA 500-600	7	5	0	-3	-5	-8	-14	-21
NTFA/NTPA 500-1000	8	5	1	-3	-5	-9	-15	-22
NTFA/NTPA 630-600	10	4	-3	-4	-4	-7	-15	-20
NTFA/NTPA 630-1000	8	3	-4	-4	-5	-6	-14	-22

**Product Marking**

NTFA - H d - L

Marking

- NTFA - absorption material mineral wool
- NTPA - absorption material synthetic sound insulation

Material

- Galvanized steel (Z275), standard material
- ZM - zinc-magnesium coated steel (ZM310)
- H - acidproof stainless steel (AISI 316L)

Diameter d

Length

**Example: NTFA 160-600**

**NTFA-H 160-600**