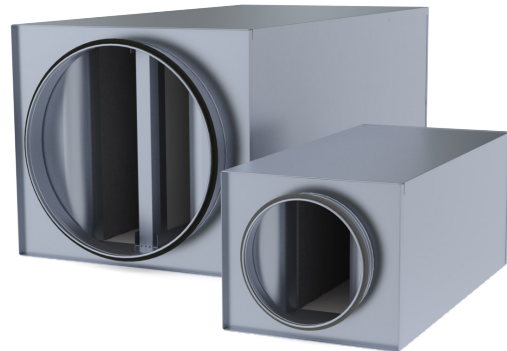


**NTF/NTP Round Silencer**

NTF/NTP – 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.
- Fulfills tightness class D according to standard EN 15727:2010.
- NTF fire-resistance class E60. EI60 is met provided that the specified safety distances are maintained.



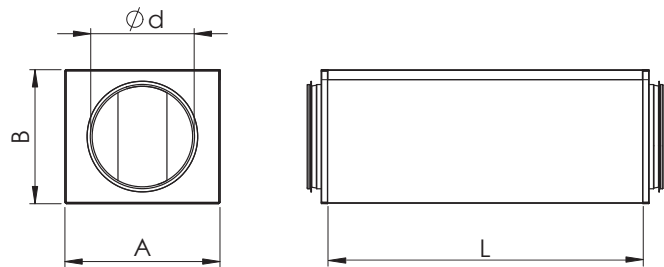
**Design and Dimensions**

NTF/NTP-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.

**Sound Attenuation**

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



NTF (absorption material mineral wool)

Nominal size Ø d (mm)	L (mm)	A (mm)	B (mm)	Safety distance EI60 (mm)	Sound attenuation (dB)								Weight (kg)
					Mean frequency of octave band (Hz)								
					63	125	250	500	1000	2000	4000	8000	
100	300	210	155	-	7	8	11	20	22	20	20	15	3,0
*100	600	210	155	510	9	16	19	32	41	43	40	26	4,7
*100	1000	210	155	620	7	28	28	50	50	51	51	45	6,9
125	300	225	180	-	3	11	8	16	17	16	15	11	3,4
*125	600	225	180	530	6	17	14	31	35	39	34	23	5,3
*125	1000	225	180	650	6	24	20	49	50	50	47	31	7,8
160	300	280	215	-	3	5	8	13	13	16	15	11	4,4
*160	600	280	215	600	6	9	15	23	28	31	26	19	6,8
*160	1000	280	215	740	8	15	20	42	41	50	43	30	10,0
200	300	295	255	-	3	4	7	11	12	15	11	9	5,0
*200	600	295	255	620	5	10	15	20	24	26	21	15	7,7
*200	1000	295	255	760	7	16	25	40	48	49	40	27	11,3
*250	600	325	305	650	7	7	13	17	22	22	17	12	9,1
*250	1000	325	305	810	10	13	22	32	40	39	29	21	13,3
*315	600	365	370	690	3	6	10	13	17	15	14	12	10,8
*315	1000	365	370	870	6	9	16	22	28	25	21	17	15,8
*400	600	510	455	820	6	8	10	14	23	30	24	16	17,5
*400	1000	510	455	1050	7	14	17	24	38	44	41	27	25,5
500	600	560	555	-	1	9	11	20	26	26	21	16	21,6
500	1000	560	555	-	4	12	20	30	40	40	34	25	31,6
630	600	720	685	-	8	9	13	19	23	25	19	16	30,4
630	1000	720	685	-	13	15	21	33	39	38	32	25	45,1

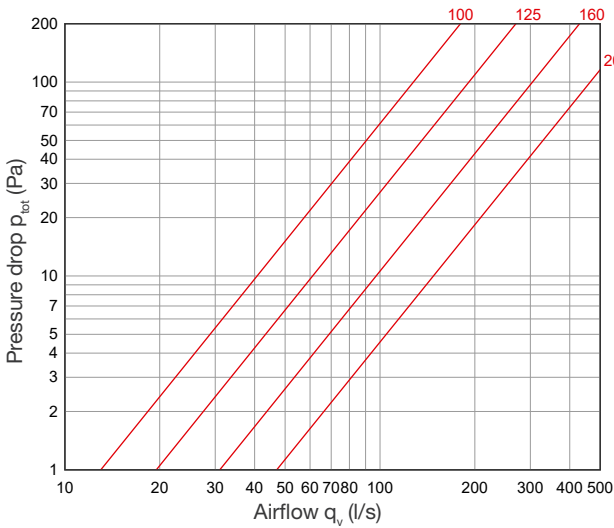
\*Marked products achieve fire-resistance class EI60, provided that the specified safety distances are maintained. This ensures protection for evacuating persons by limiting the heat flux to 2,5 kW/m<sup>2</sup>.

**NTP (absorption material synthetic sound insulation)**

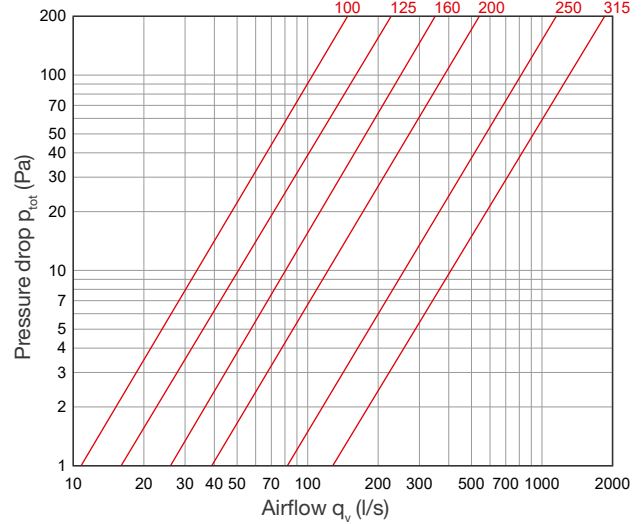
Nominal size Ø d (mm)	L (mm)	A (mm)	B (mm)	Sound attenuation (dB)								Weight (kg)
				Mean frequency of octave band (Hz)								
				63	125	250	500	1000	2000	4000	8000	
100	300	210	155	8	10	8	10	16	24	20	15	2,9
100	600	210	155	16	15	14	17	29	35	37	31	4,5
100	1000	210	155	14	22	18	29	37	46	44	43	6,6
125	300	225	180	4	11	7	11	20	20	16	12	3,3
125	600	225	180	7	14	11	18	28	33	34	23	5,1
125	1000	225	180	14	18	16	25	36	44	44	37	7,5
160	300	280	215	5	8	7	13	21	19	17	13	4,3
160	600	280	215	13	9	10	19	29	33	30	22	6,6
160	1000	280	215	13	13	16	26	37	44	44	37	9,6
200	300	295	255	4	6	7	12	17	15	12	9	4,8
200	600	295	255	16	7	11	17	28	31	24	17	7,4
200	1000	295	255	17	11	16	24	37	43	42	30	10,8
250	600	325	305	11	4	9	16	27	24	18	13	8,7
250	1000	325	305	14	8	14	22	34	39	27	18	12,7
315	600	365	370	4	5	8	14	22	16	15	12	10,3
315	1000	365	370	8	8	12	20	30	29	22	17	15,0
400	600	510	455	7	7	11	17	21	25	22	18	16,4
400	1000	510	455	8	11	15	25	33	36	35	29	23,7
500	600	560	555	0	8	10	18	24	26	23	19	20,3
500	1000	560	555	3	11	15	25	36	37	38	35	29,4
630	600	720	685	8	8	11	18	24	26	22	19	28,2
630	1000	720	685	11	12	17	27	34	37	36	27	41,4

**Pressure drop for dimensions 100-315**

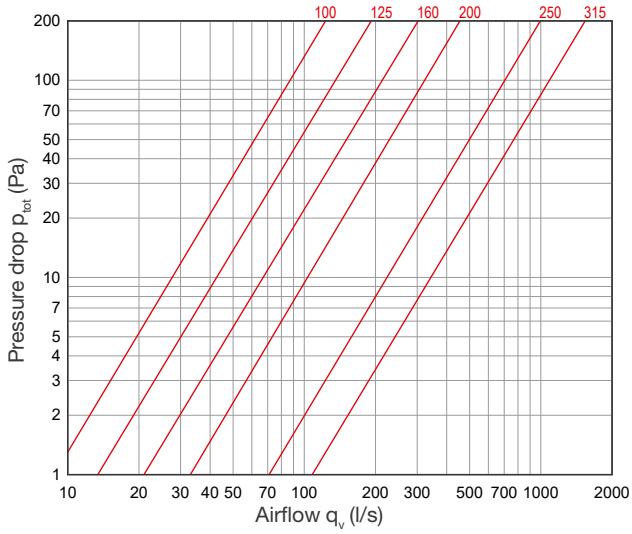
**NTF/NTP L=300**



**NTF/NTP L=600**

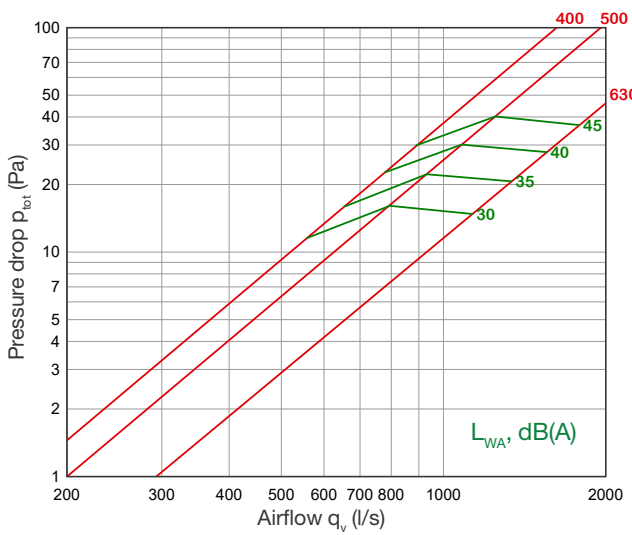


**NTF/NTP L=1000**

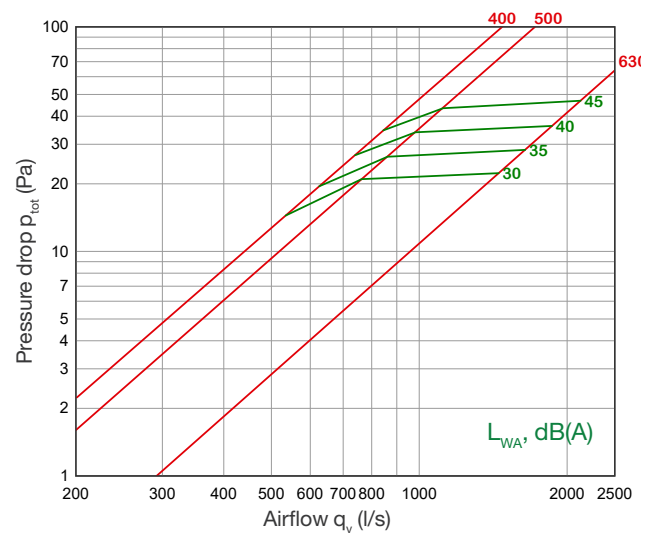


**Pressure drop for dimensions 400-600**

**NTF/NTP L=600**



**NTF/NTP L=1000**



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

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

**Product Marking**

**NTF - H d - L**

Marking

- NTF - absorption material mineral wool
- NTP - 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: NTF 160-600**

**NTP-H 160-600**