

NTFA Round Openable Silencer

NTFA – 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.



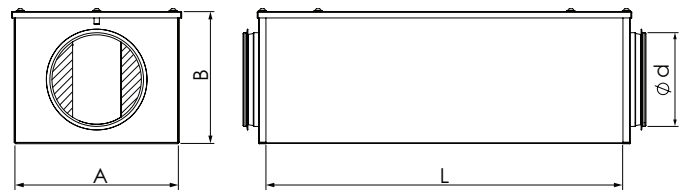
Design and Dimensions

NTFA-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).

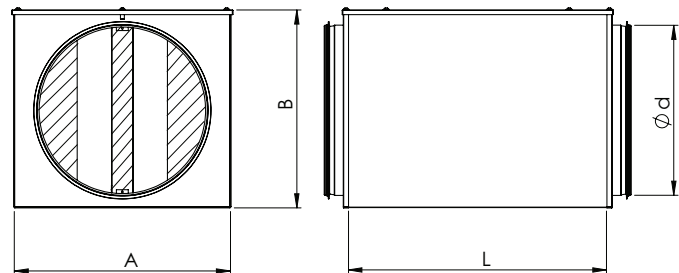
Silencers with Ø 400-630 mm include also separate absorption element.

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.

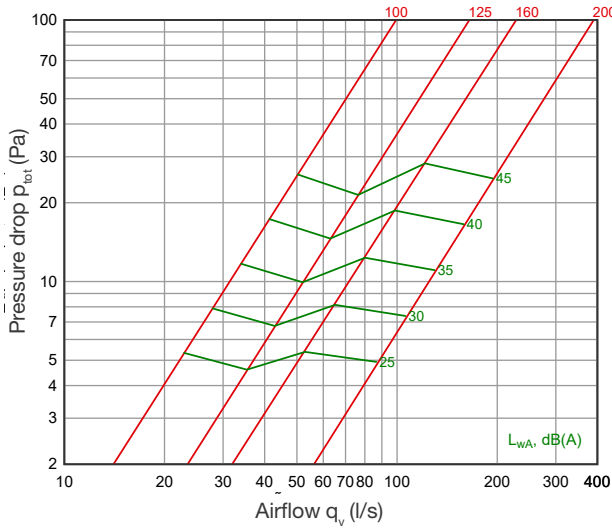
NTFA (absorption material mineral wool)

Nominal size Ød (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	10	9	15	21	19	18	17	16	3,1
100	600	210	161	12	15	24	44	49	50	48	37	4,8
100	1000	210	161	15	28	32	53	55	57	55	49	7,1
125	300	225	186	6	6	10	18	16	13	14	11	3,5
125	600	225	186	10	9	21	34	30	25	20	15	5,5
125	1000	225	186	12	14	26	43	53	53	53	41	8,0
160	300	280	221	7	5	11	13	14	15	17	12	4,5
160	600	280	221	11	8	20	25	29	26	24	19	7,0
160	1000	280	221	18	12	31	44	43	38	29	21	10,2
200	300	295	261	3	5	9	11	10	11	9	8	5,2
200	600	295	261	7	7	16	22	25	29	26	17	7,9
200	1000	295	261	15	9	26	39	46	48	42	27	11,6
250	600	325	311	5	5	14	18	22	25	17	11	9,3
250	1000	325	311	11	9	22	33	42	42	32	17	13,6
315	600	365	376	4	5	10	14	18	20	16	11	11,1
315	1000	365	376	11	7	17	25	30	34	23	14	16,2
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

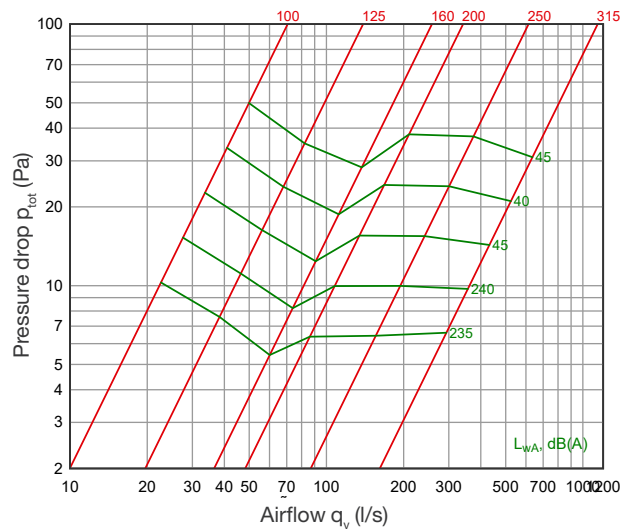
Nominal size Ød (mm)	L (mm)	A (mm)	B (mm)	Sound attenuation (dB)								Weight (kg)
				Mean frequency of octave band (Hz)								
				63	125	250	500	1000	2000	4000	8000	
500	600	560	561	1	9	11	20	26	26	21	16	22,1
500	1000	560	561	4	12	20	30	40	40	34	25	32,3
630	600	720	691	8	9	13	19	23	25	19	16	31,1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

Pressure drop for dimensions 100-315

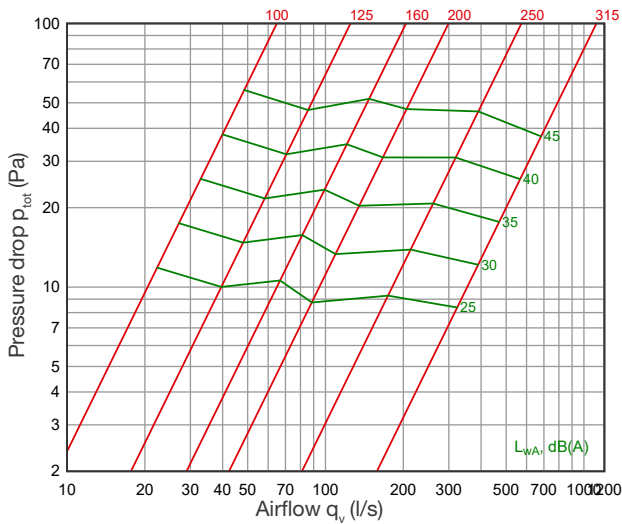
NTFA L=300



NTFA L=600

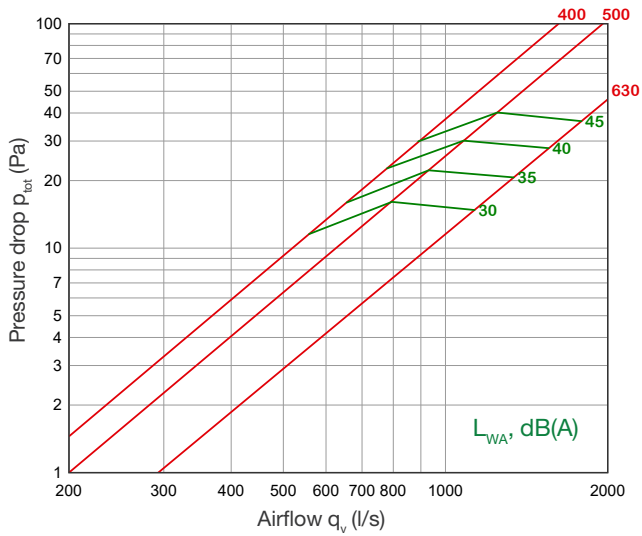


NTFA L= 1000

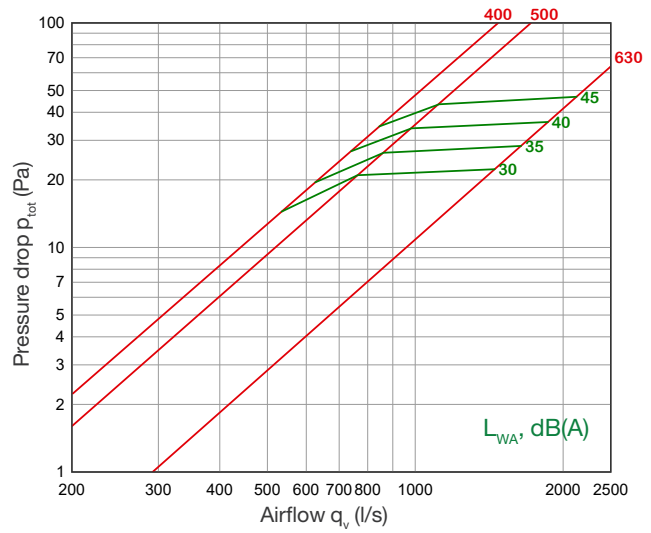


Pressure drop for dimensions 400-630

NTFA L=600



NTFA L=1000



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

Product	Sound level correction factor K_{okt} (dB)							
	63	125	250	500	1k	2k	4k	8k
NTFA 100-300	1	4	5	-1	-11	-21	-24	-23
NTFA 100-600	3	6	5	-1	-12	-19	-24	-24
NTFA 100-1000	2	3	5	-1	-12	-21	-24	-22
NTFA 125-300	6	7	6	-2	-13	-23	-26	-22
NTFA 125-600	4	7	5	-1	-12	-22	-25	-21
NTFA 125-1000	3	6	5	-1	-11	-20	-22	-21
NTFA 160-300	8	6	5	-1	-12	-20	-20	-18
NTFA 160-600	7	8	6	-3	-13	-19	-18	-14
NTFA 160-1000	8	8	5	-2	-13	-19	-16	-13
NTFA 200-300	9	6	5	-2	-12	-17	-19	-17
NTFA 200-600	9	7	5	-2	-11	-16	-16	-16
NTFA 200-1000	8	7	5	-2	-12	-16	-16	-15
NTFA 250-600	9	6	4	-2	-8	-13	-16	-17
NTFA 250-1000	7	6	3	-2	-8	-13	-15	-15
NTFA 315-600	12	7	3	-2	-8	-14	-16	-15
NTFA 315-1000	11	7	3	-3	-8	-13	-15	-12
NTFA 400-600	17	7	-1	-4	-5	-9	-15	-21
NTFA 400-1000	14	5	0	-4	-5	-8	-15	-22
NTFA 500-600	7	5	0	-3	-5	-8	-14	-21
NTFA 500-1000	8	5	1	-3	-5	-9	-15	-22
NTFA 630-600	10	4	-3	-4	-4	-7	-15	-20
NTFA 630-1000	8	3	-4	-4	-5	-6	-14	-22

Product Marking

NTFA - H d - L

Marking ————— NTFA
 NTFA - absorption material mineral wool

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

Diameter d —————

Length ————— L

Example: NTFA 160-600
NTFA-H 160-600