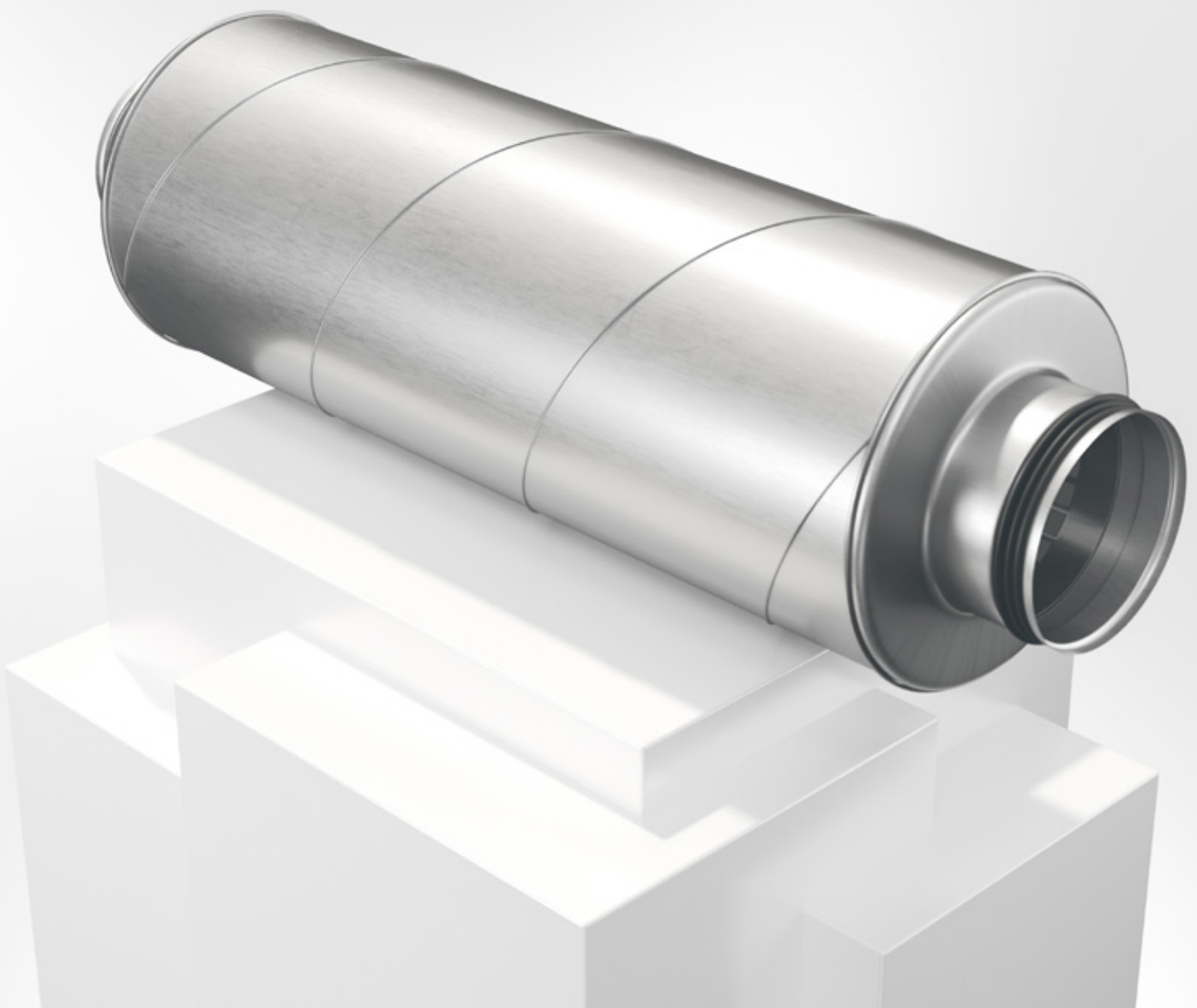


LFAC

Circular silencer



SILENCERS



10/05/2022





Quick facts

- Sizes 80 mm to 800 mm
- Also available with baffle in size 315 mm to 800 mm
- Spiro connection as standard, can also be delivered with flange or socket connection
- Air tightness class D
- Type approved fire class

Use

Circular silencer LFAC is intended for attenuation in ventilation plants. LFAC addresses good practice with respect to cleanability, fibre-proofing, emissions and micro-organisms. LFAC is type approved with respect to fire class and air tightness class. Type approval certificate No. 0037. The silencer is available in three versions (Type 1, 2 and 3) with different performances. Type 2 is designed with baffle.

Materials and surface treatment

LFAC is manufactured as standard in galvanised sheet steel with perforated inner tube. The absorption material consists of mineral wool with a surface layer of glass fibre reinforced staple fibre felt. The connections are provided with rubber seals and fit standard Spiro ducts. They are also available with flanges or socket connections. The silencer can also be manufactured in stainless steel, with or without surface treatment. For severely polluted air the absorption material can be enclosed.

Specification

Example:

Silencer **LFAC - 3 - 100 - 600 - 1**

Type 1: 50 mm insulation = 1
without baffle

Type 2: 100 mm insulation = 2
with baffle

Type 3: 100 mm insulation = 3
without baffle

Connection, Ød mm

Length, mm

Material:

Galvanized sheet steel = 1

Stainless AISI 316L – EN 1.4404 = 3

Assembly

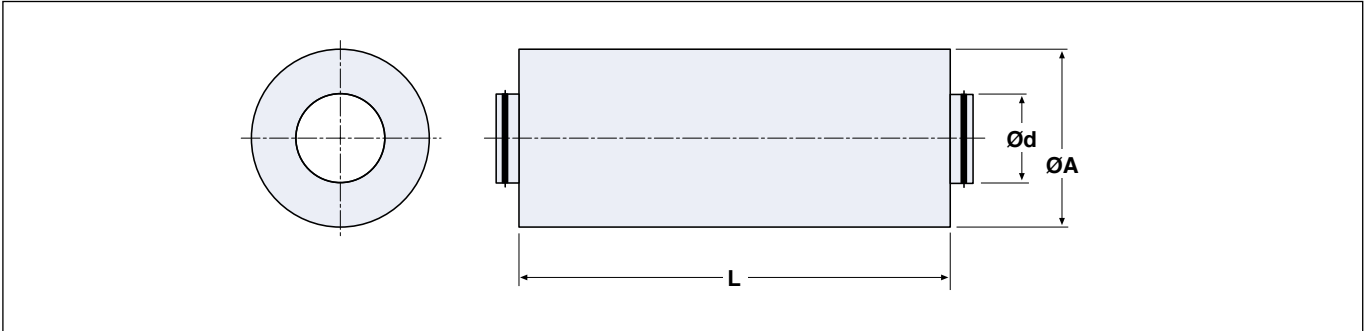
When hanging the silencer, mounting devices that go around the outer jacket must be used. LFAC must not be mounted only suspended from their connection points. Suspensions should be carried out according to applicable requirements. See for example the manual "Practical solutions fire protection – ventilation".

Maintenance

LFAC is under normal operating conditions, maintenance-free.



Size and weight



Insertion loss

Pressure drop for type 1 and 3 is calculated as for duct of same size.

Type 1 without baffle, 50 mm sound insulation
EI15 (EI30 with safety distance 100 mm)

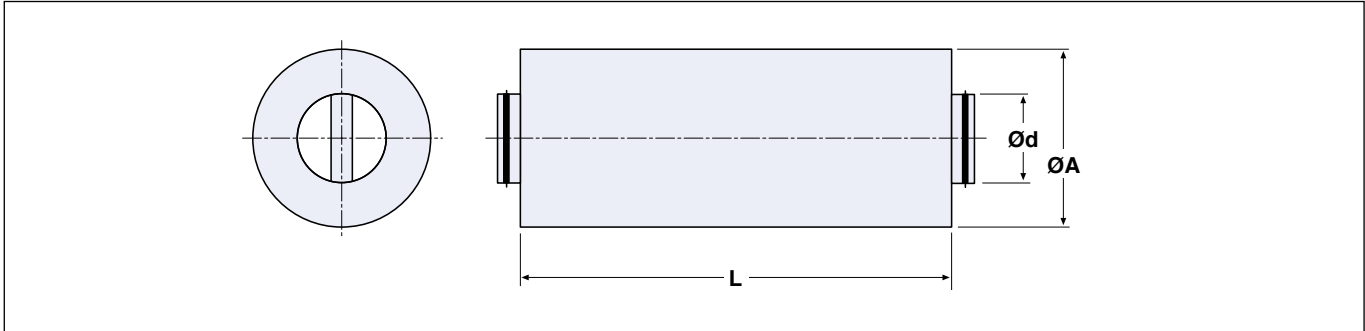
Ød mm	L mm	ØA mm	Weight kg	Insertion loss in octave band dB								
				Centre frequency Hz								
				63	125	250	500	1K	2K	4K	8K	
80	300	190	2,6	4	4	10	14	22	27	36	17	
	600	190	4,5	6	11	15	23	39	50	50	27	
	900	190	5,1	3	14	18	34	50	50	50	26	
100	300	210	2,8	3	4	8	13	19	25	30	15	
	600	210	4,6	5	9	13	23	34	47	48	23	
	900	210	6,5	4	11	17	31	50	50	50	23	
125	300	235	3,6	4	3	7	11	15	23	24	12	
	600	235	4,9	5	7	11	21	30	43	37	19	
	900	235	8,2	2	9	14	29	43	50	41	20	
1200	235	10	2	7	18	35	50	50	50	25		
	160	300	270	4,3	4	3	5	9	12	21	18	10
		600	270	6,3	4	5	9	20	26	39	26	15
900		270	9,1	1	6	11	26	35	48	31	17	
1200	270	13	1	5	13	33	42	50	34	18		
	200	300	310	5,4	1	2	4	10	13	20	15	11
		600	310	7,2	2	4	7	17	21	33	20	13
900		310	11	2	5	9	23	31	42	24	15	
1200	310	16	3	5	13	32	49	48	27	17		
	250	600	360	9	2	3	5	13	17	26	13	11
		900	360	13	2	4	8	20	27	35	17	13
1200		360	17	2	4	10	27	34	40	20	17	
315	600	425	12	2	2	3	10	13	20	7	10	
	900	425	16	1	2	7	17	23	29	10	12	
	1200	425	26	1	3	12	24	35	31	14	15	
400	600	510	18	1	2	4	10	11	13	7	9	
	900	510	24	1	2	7	13	18	18	11	11	
	1200	510	29	1	3	8	15	23	21	15	14	

Type 3 without baffle, 100 mm sound insulation
EI30 (EI60 with safety distance 100 mm)

Ød mm	L mm	ØA mm	Weight kg	Insertion loss in octave band dB								
				Centre frequency Hz								
				63	125	250	500	1K	2K	4K	8K	
80	300	310	2,6	4	6	10	15	22	27	36	16	
	600	310	8	12	13	18	33	44	58	48	24	
	900	310	13	9	16	27	37	49	56	55	26	
100	300	310	2,8	4	6	9	13	19	25	30	14	
	600	310	8,2	9	11	16	27	37	52	42	20	
	900	310	13	8	14	23	33	45	53	47	23	
1200	310	14	6	17	28	39	53	55	52	25		
	125	300	335	5,2	4	5	8	11	16	24	24	12
		600	335	8,5	7	9	13	21	30	45	36	17
900		335	14	6	12	20	29	41	50	38	20	
1200	335	17	6	15	25	36	52	55	48	22		
	160	300	370	5,6	4	4	7	10	13	22	18	10
		600	370	11	5	7	2	15	23	39	24	14
900		370	17	5	9	17	24	37	47	30	16	
1200	370	19	6	12	22	33	51	56	36	19		
	200	300	410	8,9	4	3	6	8	10	20	11	7
		600	410	13	4	6	10	13	21	33	19	13
900		410	20	4	8	15	21	32	41	23	15	
1200	410	25	5	9	20	28	43	48	27	16		
	250	600	460	14	3	5	9	12	19	27	14	12
		900	460	23	3	6	13	17	27	34	16	13
1200		460	26	4	6	17	22	34	40	18	14	
315	600	525	17	2	4	8	10	17	21	8	10	
	900	525	28	3	4	10	13	22	26	15	13	
	1200	525	36	3	5	13	17	29	32	16	14	
400	900	610	32	2	3	6	10	17	19	13	13	
	1200	610	40	3	4	9	13	23	23	14	14	
	500	900	710	42	2	3	6	9	14	16	11	10
1200		710	63	3	4	8	11	18	19	12	11	
630	900	840	51	2	3	5	8	10	12	9	8	
	1200	840	60	3	3	7	10	14	15	11	9	
800	900	1010	62	2	2	4	7	8	10	9	6	
	1200	1010	73	3	3	6	8	9	11	9	7	



Size and weight



Type 2 with baffle and 100 mm sound insulation
EI30 (EI60 with safety distance 100 mm)

Ød mm	L mm	ØA mm	Weight kg	Insertion loss in octave band dB							
				Centre frequency Hz							
				63	125	250	500	1K	2K	4K	8K
315	600	525	20	3	3	6	9	18	24	19	15
	900	525	34	3	5	10	14	27	35	24	18
	1200	525	36	3	7	13	20	37	46	29	21
400	600	610	30	2	3	6	8	15	21	17	13
	900	610	43	3	5	9	14	24	31	21	16
	1200	610	52	3	6	12	19	34	41	25	19
500	600	710	32	1	2	5	8	12	17	14	12
	900	710	45	2	4	9	14	20	25	19	14
	1200	710	63	4	6	11	20	31	36	21	16
630	600	840	40	1	0	4	6	10	14	10	8
	900	840	67	2	3	7	12	18	21	13	10
	1200	840	75	4	4	9	17	26	27	16	13
800	900	1010	82	2	3	5	11	16	14	8	7
	1200	1010	103	4	3	7	15	21	19	10	8

Pressure drop, type 2

