



Flexible Duct Silencer

Model RS-F



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Flexible Duct Silencer Model RS-F

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Flexible Duct Silencer Model RS-F

Description

Air ducts that are connected to a large number of adjacent rooms have the disadvantage that there is a risk that air- and structure-borne noise is transmitted through the ducts. To avoid this secondary sound path transmission, the SCHAKO's flexible duct silencer RS-F has proven to be an effective silencing device. For maintenance, service, retrofitting, etc., inspection openings in sufficient number and size must be provided on-site.

Construction

Outer tube

- Two-layer aluminium

Inner tube

- Perforated aluminium

Sound-absorbing material

- Synthetic-resin-bonded glass wool toward the duct inner wall

Connection piece

- Galvanised sheet steel

Model

- Model RS-F - Annular chamber with mineral wool filling
- ...-25 - Packing thickness 25 mm
 - ...-50 - Packing thickness 50 mm

Accessories

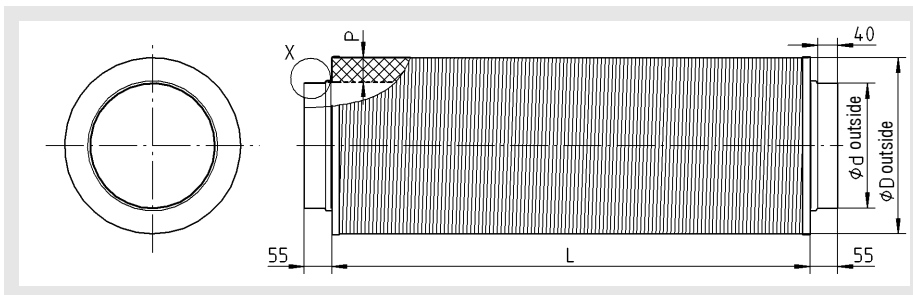
Rubber lip seal (-GD)

- on both sides, special rubber

Models and dimensions

Dimensions

RS



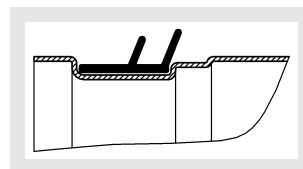
Available sizes

L	Size	ød	øD	
			P (mm)	
			25	50
500	80	78	130	180
1000	100	98	150	200
1500	125	123	175	225
2000	140	138	190	240
	150	148	200	250
	160	158	210	260
	180	178	230	280
	200	198	250	300
	224	222	274	324
	250	248	300	350
	280	278	330	380
	315	313	365	415
	355	353	405	455
	400	398	450	500

Dimensions of accessories

Rubber lip seal (-GD)

Detail X



All combined lengths and diameters available.

Flexible Duct Silencer Model RS-F

Technical data

Insertion loss

RS-F-25, L=500

Size	D _e (dB/Oct)							
	f _m (Hz)							
	63	125	250	500	1000	2000	4000	8000
80	1	2	4	9	20	16	15	10
100	1	1	4	8	17	14	12	9
125	1	1	3	8	15	11	9	7
140	1	1	3	7	15	11	8	7
150	1	1	3	6	14	10	8	6
160	1	1	2	5	14	10	8	6
180	1	1	2	5	14	9	7	6
200	1	1	2	5	14	9	6	5
224	1	1	2	5	13	8	6	4
250	0	1	2	5	13	8	5	4
280	0	1	1	4	11	7	5	3
315	0	1	1	4	9	7	4	3
355	0	1	1	3	8	6	4	3
400	0	0	1	3	6	5	3	3

RS-F-25, L=1500

Size	D _e (dB/Oct)							
	f _m (Hz)							
	63	125	250	500	1000	2000	4000	8000
80	3	5	13	28	47	48	44	31
100	2	4	12	24	45	42	34	26
125	2	3	10	22	45	34	28	20
140	2	3	8	20	44	33	27	20
150	2	2	4	18	43	32	26	19
160	2	2	6	16	42	30	25	19
180	2	2	5	15	41	29	22	17
200	2	2	5	15	41	27	19	15
224	1	2	5	15	40	26	17	13
250	1	2	5	15	38	25	14	11
280	1	2	4	14	33	22	14	10
315	1	2	4	12	27	19	13	10
355	1	1	4	11	25	18	12	9
400	1	1	4	10	23	17	11	8

RS-F-25, L=1000

Size	D _e (dB/Oct)							
	f _m (Hz)							
	63	125	250	500	1000	2000	4000	8000
80	3	5	10	21	44	45	27	23
100	2	3	8	17	44	35	28	21
125	2	3	7	17	43	30	24	18
140	2	2	6	16	41	29	22	18
150	1	2	5	14	40	28	21	17
160	1	1	4	12	40	27	20	17
180	1	1	3	12	38	25	18	15
200	1	1	3	11	35	22	16	13
224	1	1	3	11	33	21	15	11
250	1	1	3	11	30	19	13	10
280	0	1	3	10	25	16	13	9
315	0	1	3	9	21	10	12	8
355	0	1	3	9	19	9	10	7
400	0	1	3	8	16	8	8	7

RS-F-25, L=2000

Size	D _e (dB/Oct)							
	f _m (Hz)							
	63	125	250	500	1000	2000	4000	8000
80	3	6	16	35	50	50	50	39
100	2	5	15	30	50	49	42	31
125	2	4	12	28	48	37	32	23
140	2	3	10	26	48	36	31	22
150	2	3	9	23	47	35	30	21
160	2	3	8	20	47	34	28	21
180	1	3	7	20	47	33	24	18
200	1	3	7	19	46	32	20	16
224	1	3	6	17	44	31	18	15
250	1	3	6	14	42	30	15	13
280	1	2	6	14	36	29	14	12
315	1	2	6	14	32	27	13	11
355	1	2	5	12	28	25	12	10
400	1	2	4	10	23	22	11	9

Flexible Duct Silencer Model RS-F

RS-F-50, L=500

Size	D _e (dB/Oct)							
	f _m (Hz)							
	63	125	250	500	1000	2000	4000	8000
80	4	5	11	20	30	27	16	12
100	3	4	9	17	24	21	12	10
125	2	3	7	14	20	16	11	9
140	2	3	7	13	19	16	10	8
150	2	3	6	12	18	15	9	7
160	2	2	6	12	17	14	8	6
180	2	2	5	12	16	13	7	6
200	1	2	5	12	16	11	6	5
224	1	2	4	12	15	10	6	4
250	1	2	4	12	15	8	5	4
280	1	2	3	11	14	7	5	3
315	1	1	3	9	12	6	4	3
355	1	1	3	8	11	6	4	3
400	1	1	3	7	9	6	4	3

RS-F-50, L=1500

Size	D _e (dB/Oct)							
	f _m (Hz)							
	63	125	250	500	1000	2000	4000	8000
80	11	14	33	48	50	50	47	37
100	10	11	27	44	50	50	38	30
125	7	9	21	41	50	46	33	27
140	6	8	19	40	50	45	29	24
150	5	8	18	40	50	43	27	22
160	5	7	17	39	50	42	24	19
180	4	7	15	38	49	38	21	17
200	4	6	14	37	48	34	18	15
224	3	6	13	36	46	30	17	13
250	3	5	15	35	45	25	15	12
280	2	5	11	31	40	22	14	11
315	2	4	10	26	35	19	12	10
355	2	4	10	23	30	18	11	9
400	2	4	9	20	25	17	11	8

RS-F-50, L=1000

Size	D _e (dB/Oct)							
	f _m (Hz)							
	63	125	250	500	1000	2000	4000	8000
80	8	14	23	45	50	50	42	27
100	7	10	21	37	50	50	29	23
125	5	7	16	32	50	42	25	22
140	5	6	14	31	49	37	23	20
150	4	5	13	30	48	36	22	18
160	4	5	12	29	47	34	20	16
180	3	5	12	27	46	30	18	15
200	3	5	11	25	45	25	16	13
224	2	5	10	24	43	22	14	12
250	2	4	9	24	40	19	12	10
280	1	4	9	23	34	16	12	9
315	1	4	8	22	28	13	12	8
355	0	4	8	20	25	12	11	8
400	0	4	8	18	23	11	10	7

RS-F-50, L=2000

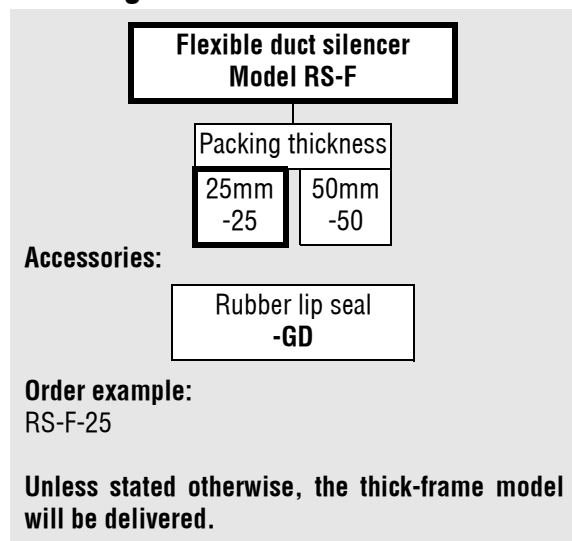
Size	D _e (dB/Oct)							
	f _m (Hz)							
	63	125	250	500	1000	2000	4000	8000
80	15	15	42	50	50	50	50	47
100	12	12	34	50	50	50	46	37
125	9	11	27	50	50	50	40	31
140	8	10	25	50	50	50	35	27
150	7	9	24	49	50	50	32	24
160	6	9	22	49	50	50	29	21
180	5	9	20	48	50	46	26	20
200	5	8	18	47	50	42	22	18
224	4	7	17	46	50	36	19	16
250	4	6	15	45	50	30	16	13
280	4	5	14	39	46	29	15	12
315	3	4	12	33	42	27	14	11
355	3	3	11	27	35	25	13	10
400	3	3	9	22	28	22	11	9

Legend

- L (mm) = Length
 Size (mm) = Nominal value
 D_e [dB/Oct] = Insertion loss
 P (mm) = Packing thickness

Flexible Duct Silencer Model RS-F

Ordering details



Specification texts

Flexible duct silencer for reducing flow generated noise consisting of 2-layer aluminium outer tube with galvanised end caps. Connection to the duct pipeline via connection pieces made of galvanised sheet steel. Perforated aluminium inner tube. Temperature-resistant up to 200°C. Sound-absorbing material made of synthetic-resin-bonded glass wool, comprising an abrasion-resistant, filament-reinforced tube inner wall. Non-flammable according to DIN 4102, building material class A1.

Product: SCHAKO **type RS-F**

- Packing thickness:
 - 25 mm (...-25)
 - 50 mm (...-50)

Accessories:

- Rubber lip seal (-GD) on both sides, made of special rubber.