



Flexible duct silencer

Model RS-F



Ferdinand Schad KG
Steigstraße 25-27
D-78600 Kolbingen
Telefon 0 74 63 - 980 - 0
Telefax 0 74 63 - 980 - 200
info@schako.de
www.schako.de

Duct silencer

Contens

Description	3
Construction	3
Model	3
Accessories	3
Models and dimensions	3
Dimensions	3
Dimensions of accessories	3
Technical data	4
Insertion loss	4
Legend	5
Order details	6
Specification texts	7

Duct silencer 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, 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 (-AL)

Inner tube

- Perforated aluminium (-AL)

Sound-absorbing material

- Synthetic-resin-bonded glass wool with abrasion-resistant, fibre-reinforced side oriented towards the inner side of the tube

Connection piece

- Galvanised sheet steel

Model

RS-F-...	- Flexible duct silencer
...-0500	- Length 500 mm
...-1000	Length 1000 mm
...-1500	Length 1500 mm
...-2000	Length 2000 mm
...-25	- Packing thickness 25 mm
...-50	- Packing thickness 50 mm

Accessories

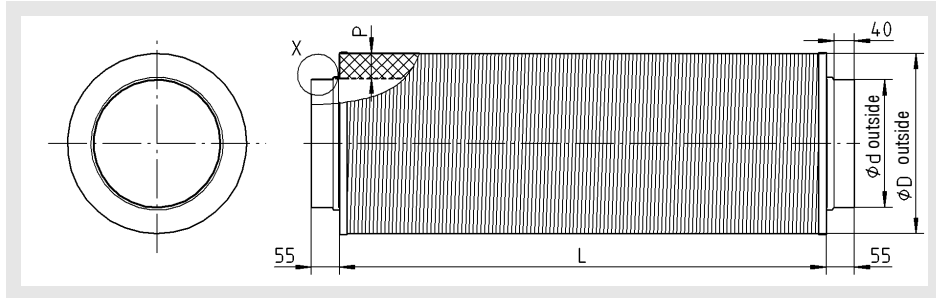
Rubber lip seal (-GD1)

- on both sides, special rubber

Models and dimensions

Dimensions

RS-F-...



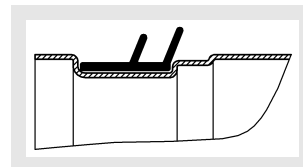
Available sizes

L	NW	ϕd	ϕD	
			25	50
500	80	78	125	180
1000	100	98	150	200
1500	125	123	180	224
2000	140	138	180	250
	150	148	200	250
	160	158	200	250
	180	178	224	280
	200	198	250	300
	224	222	280	315
	250	248	300	355
	280	278	355	400
	315	313	355	400
	355	353	400	450
	400	398	450	500

Dimensions of accessories

Rubber lip seal (-GD1)

Detail X



All combined lengths and diameters available.

Duct silencer RS-F

Technical data

Insertion loss

RS-F-...-25, L=500

		D _e (dB/oct)							
		f _m (Hz)							
		63	125	250	500	1000	2000	4000	8000
NW	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

		D _e (dB/oct)							
		f _m (Hz)							
		63	125	250	500	1000	2000	4000	8000
NW	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

		D _e (dB/oct)							
		f _m (Hz)							
		63	125	250	500	1000	2000	4000	8000
NW	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

		D _e (dB/oct)							
		f _m (Hz)							
		63	125	250	500	1000	2000	4000	8000
NW	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

Duct silencer RS-F

RS-F-...-50, L=500

	D _e (dB/oct)								
	f _m (Hz)								
	63	125	250	500	1000	2000	4000	8000	
NW	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

	D _e (dB/oct)								
	f _m (Hz)								
	63	125	250	500	1000	2000	4000	8000	
NW	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	12	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

	D _e (dB/oct)								
	f _m (Hz)								
	63	125	250	500	1000	2000	4000	8000	
NW	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

	D _e (dB/oct)								
	f _m (Hz)								
	63	125	250	500	1000	2000	4000	8000	
NW	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
- NW (mm) = Nominal width
- D_e [dB/oct] = Insertion loss
- P (mm) = Packing thickness

Duct silencer RS-F

Order details

01	02	03	04	05	06	07
Type	Model	Length	Nominal width	Packing thickness	Material	Duct connection
Example						
RS	-F	-0500	-080	-25	-AL	-KA0

Sample

RS-F-0500-080-25-AL-KA0

Duct silencer | Flexible model | Length 500 mm | Nominal width 80 mm | Packing thickness 25 mm | Flexible aluminium duct | without rubber lip seal / without flange

Order details

01 - Type

RS = Duct silencer

02 – Model

F = Flexible model

03 - Length

0500 = Length 500 mm
 1000 = Length 1000 mm
 1500 = Length 1500 mm
 2000 = Length 2000 mm

04 – Nominal width

080 = NW 80 mm
 100 = NW 100 mm
 125 = NW 125 mm
 140 = NW 140 mm
 150 = NW 150 mm
 160 = NW 160 mm
 180 = NW 180 mm
 200 = NW 200 mm
 224 = NW 224 mm
 250 = NW 250 mm
 280 = NW 280 mm
 315 = NW 315 mm
 350 = NW 350 mm
 355 = NW 355 mm
 400 = NW 400 mm

05 - Packing thickness

25 = 25 mm
 50 = 50 mm

06 - Material

AL = Flexible aluminium duct

07 - Duct connection

KA0 = without rubber lip seal / without flange (standard)
 GD1 = with rubber lip seal

Duct silencer RS-F

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. Aluminium inner tube perforated. 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, construction material class A1, Product: SCHAKO **type RS-F**

- Length:
 - 500 mm (-0500)
 - 1000 mm (-1000)
 - 1500 mm (-1500)
 - 2000 mm (-2000)

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

Accessories:

- Rubber lip seal (-GD1) on both sides, made of special rubber.