

AGRXB / AGRYB

- ▶ Sound attenuator
- ▶ Round, flexible

Design:

outside coil:	double layered, aluminium
inside coil:	aluminium, perforated
absorption material:	glass silk, 25 or 50 mm
finish:	none

Available types:

- A G R - B O**
- A** accessories
 - G** sound attenuating
 - R** round
- **design**
- X** lining thickness 25 mm
 - Y** lining thickness 50 mm
- B** flexible
- O** not applicable

Application:

The round flexible sound attenuator is suitable for application of attenuators in duct branches, to absorb the sound obtained from a larger pressure drop when throttling. Also applicable as an attenuator after a round VAV controller. Since it is constructed as a double layered aluminium flexible coil pipe, the attenuator can be mounted in a bent shape. The minimum bending radius is about 2 times the outside diameter.

Features:

Attenuation: see table
 Max. air velocity: 15 m/s

Remark:

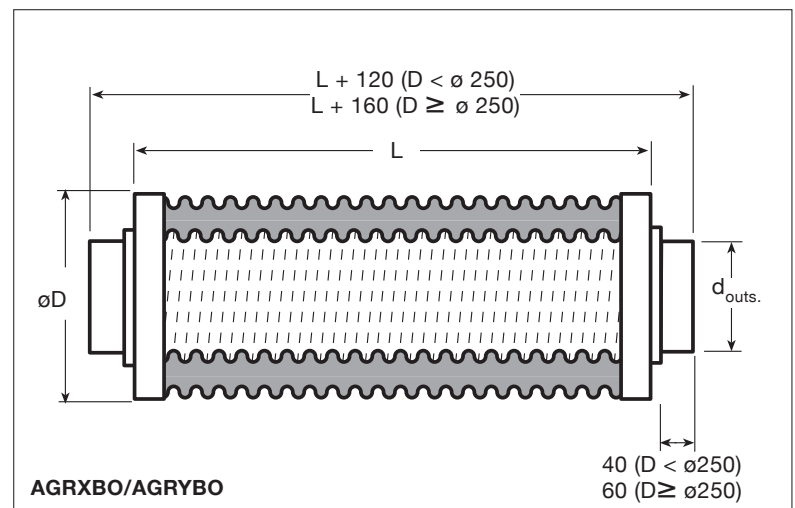
The dimensions are in mm.
 The stated width is the width of the damping part.
 Standard lengths 500 - 1000 mm.
 Type AGRYB also in 2000 and 3000 mm lengths.

Dimensional data:

Model	d _{outs.}	D	
		AGRXB	AGRYB
80	78	130	180
100	98	150	200
125	123	180	224
140	138	200	250
150	148	200	250
160	158	200	250
180	178	224	280
200	198	250	300
225	223	280	315
250	248	300	355
280	278	355	400
300	298	355	400
315	313	355	400

larger dimensions on request

Dimensions:



Attenuation values :

AGRXB (absorption layer 25 mm):

Model	length	middle frequency bands					
		125	250	500	1k	2k	4k
80	1000	6	8	19	40	64	40
100	1000	3	7	15	37	68	33
125	1000	5	8	16	31	51	22
160	1000	1	4	9	24	50	18
200	1000	2	5	9	22	29	12
250	1000	1	3	8	21	18	8

AGRYB, (absorption layer 50 mm):

Model	length	middle frequency bands					
		125	250	500	1k	2k	4k
80	1000	11	16	40	55	65	52
100	1000	6	13	23	44	62	41
125	1000	7	13	26	44	51	29
150	1000	5	11	25	44	40	25
160	1000	3	11	25	43	40	20
200	1000	4	10	21	43	25	14
250	1000	3	9	20	39	15	9
315	1000	1	5	14	30	11	6

Pressure loss per metre length:

AGRXB and AGRYB:

Model	duct velocity in m/s													
	2		3		4		5		7		10		15	
	Ps	m ³ /h	Ps	m ³ /h	Ps	m ³ /h	Ps	m ³ /h	Ps	m ³ /h	Ps	m ³ /h	Ps	m ³ /h
80	1	36	3	54	6	72	9	90	17	127	35	181	78	271
100	1	57	3	85	5	113	7	141	14	198	28	283	63	424
125	1	88	2	132	4	177	6	221	11	309	23	442	51	662
160	1	145	2	217	3	289	4	362	8	506	17	723	38	1085
200	0	226	1	339	2	452	3	565	6	791	12	1130	27	1696
250	0	353	1	530	1	707	2	883	4	1236	8	1766	19	2649
315	0	561	1	841	1	1122	2	1402	3	1963	7	2804	16	4206