



SOUND ATTENUATORS

Brochure

Tunnels & Metro Lines



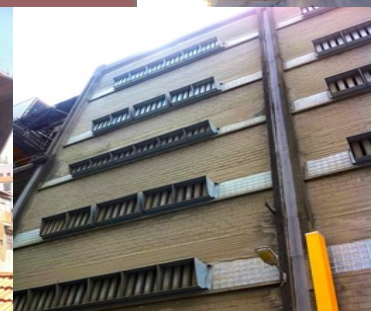
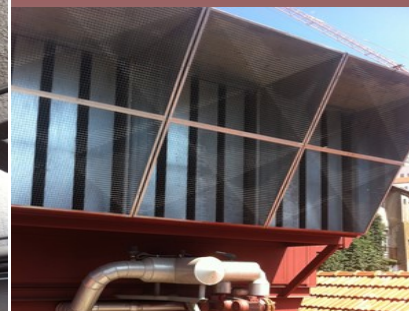
HVAC Installations



Power Generators



Special Attenuators





Sound Attenuators Brochure

AIRTEK Series - Range overview

AIRTEK SRK



AIRTEK SRW



AIRTEK SRR [400°C/2 hours]

Specially designed for Metro Lines,
Ventilation Shafts & Tunnels

Option – Final coating for
corrosivity environments

C1 to C5



AIRTEK SCS



AIRTEK SCT





Introduction

ACUSTEKPRO is an important manufacturer of sound attenuators and acoustic louvres, and we have reached this position by delivering quality products, on time, and at the right price. This is achieved through a professional and friendly team of acoustic engineers and staff that are available to provide clients with a first class service.

The ACUSTEKPRO Attenuator Brochure provides comprehensive details on a wide range of standard products, that should meet most requirements. However if you can't find it here then ACUSTEKPRO has the expertise to research, develop, test and construct almost any attenuator product you can think of, so please give us a call.

Some of the things that make ACUSTEKPRO attenuator products stand apart from our competitors are detailed below.

- . Manufacturing technology – Our Production Centre utilises a range of specialised machinery that automates the attenuator manufacturing process. A duct line produces attenuator casings with integral 20, 30mm or 40 mm profile flanges. A splitter line de-coils and roll-forms all the splitter frame parts and all the parts finally come together on the Attenuator Assembly Line. Consequently we can make attenuator products quicker, more cost effectively and with quality.
- . Logistics Center – Our logistics center in AVEIRO is ready to deliver and load into containers large quantities of sound attenuators. Package with plastic film and metal reinforcing straps. provided on Euro pallets.

ACUSTEKPRO attenuators are manufactured to allow passage of air while reducing the noise level along the air path. The attenuators are manufactured to suit each application and are not restricted to meeting module sizes. Our manufacturing process enables maximum flexibility when balancing the space requirement with the acoustic and airflow restraints.

ACUSTEKPRO has a wide range of attenuators to meet the requirements of all situations. Typically attenuators are manufactured from galvanized steel however, if required, the attenuators can be manufactured from other materials including stainless steel and aluminium to provide additional corrosion protection in harsh environments.



Sound Attenuators SR-K series

Splitter Attenuators

Rectangular duct attenuator constructed from galvanised sheet steel, with splitter type acoustic elements. Provided with 20, 30 or 40 mm profile flanges, which are compatible with flanging systems. Acoustic Splitters with spigot ends (up to certain sizes if required).

Materials

- **Outer casing**
-Outer casings of standard rectangular straight silencers shall be made of not less than 1,0 mm; lock former quality galvanized steel, [or 316/304 stainless steel, aluminum].
- **Acoustic Splitters/Baffles**
-Splitters shall be made of not less than 0,6 mm properly stiffened to ensure structural integrity; lock form quality, galvanized steel, [or 316/304 stainless steel, aluminum].

- Acoustically absorptive material of a proper density to obtain the specified acoustic performance and be packed under not less than 5% compression to eliminate voids due to vibration and settling. Material shall be with laminated non-woven glass fibre fabric to provide protection against abrasion at air velocities of up to 20 m/s- Highly bio-degradable, no health risk; moisture-repellent; rot-proof impregnation and non-flammable.
- Fire class – A1

Option selection

[Y] – Acoustic Splitters with spigot ends/aerodynamically shaped for energy saving (Pressure drop reduction 25% to 30%)

Standard Construction Codes

Attenuator series	standard Splitter models	Optional code
SR-K	SR-K1-40	[Y]
	SR-K1-50	[Y]
	SR-K1-75	[Y]
	SR-K1-100	[Y]
SR-K	SR-K2-50	[Y]
	SR-K2-100	[Y]
	SR-K2-150	[Y]
	SR-K2-200	[Y]
SR-K	SR-K3-100	[Y]
	SR-K3-150	[Y]
	SR-K3-200	[Y]
	SR-K3-300	[Y]

order example

SR-K1-40-1400/1000/1250-[1Y]

codes explained:

SR-K1-40 - Sound attenuator model type

1400/1000/1250 - Dimensions - Width/Height/Length

Optional code [1Y] – Aerodynamic shaped splitters/1 side



MODEL SR-K1-40

Size Range	minimum (mm)		maximum (mm)		Lengths (mm)
	widht	height	widht	height	
Serie SR-K1-40	140	100	2380	2100	500 to 4800

other dimensions possible upon request

Performance data - Noise Reduction

Length [mm]	f[Hz]							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	Insertion Loss [dB] (EN ISO 7235 standards)							
1000	9	10	20	34	47	49	46	35
1250	11	12	24	40	50	49	50	40
1500	13	13	29	46	50	49	50	44
1800	15	16	34	50	50	49	50	50
2000	15	17	37	50	50	49	50	50
2400	17	20	44	50	50	49	50	50
3000	20	24	50	50	50	49	50	50

MODEL SR-K1-50

Size Range	minimum (mm)		maximum (mm)		Lengths (mm)
	widht	height	widht	height	
Serie SR-K1-50	150	100	2400	2100	500 to 4800

other dimensions possible upon request

Performance data Noise Reduction

Length [mm]	f[Hz]							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	Insertion Loss [dB] (EN ISO 7235 standards)							
1000	8	9	18	32	45	47	41	31
1250	10	10	23	37	49	49	45	36
1500	12	11	26	43	50	49	50	29
1800	14	13	31	50	50	49	50	46
2000	14	14	34	50	50	49	50	49
2400	16	17	40	50	50	49	50	50
3000	20	20	50	50	50	49	50	50



MODEL SR-K1-75

Size Range	minimum (mm)		maximum (mm)		Lengths (mm)
	widht	height	widht	height	
Serie SR-K1-75	175	100	2450	2100	500 to 4800

other dimensions possible upon request

Performance data Noise Reduction

Length [mm]	f[Hz]							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	Insertion Loss [dB] (EN ISO 7235 standards)							
1000	7	6	13	24	43	45	35	24
1250	9	7	14	28	48	50	39	29
1500	9	7	17	34	50	50	44	33
1800	11	8	21	39	50	50	50	39
2000	11	9	23	42	50	50	50	40
2400	12	11	29	50	50	50	50	46
3000	16	13	35	50	50	50	50	50

MODEL SR-K1-100

Size Range	minimum (mm)		maximum (mm)		Lengths (mm)
	widht	height	widht	height	
Serie SR-K1-100	200	100	2400	2100	500 to 4800

other dimensions possible upon request

Performance data Noise Reduction

Length [mm]	f[Hz]							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	Insertion Loss [dB] (EN ISO 7235 standards)							
1000	3	3	10	25	40	40	28	17
1250	3	4	14	30	45	46	33	19
1500	3	4	16	34	50	50	39	22
1800	4	5	20	40	50	50	45	27
2000	4	6	22	44	50	50	49	29
2400	5	5	24	50	50	50	50	34
3000	6	7	30	50	50	50	50	42



MODEL SR-K2-50

Size Range	minimum (mm)		maximum (mm)		Lengths (mm)
	widht	height	widht	height	
Serie SR-K2-50	250	200	2500	2100	500 to 4800

other dimensions possible upon request

Performance data Noise Reduction

Length [mm]	f[Hz]							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	Insertion Loss [dB] (EN ISO 7235 standards)							
1000	12	14	27	47	50	50	46	36
1250	14	17	33	50	50	50	50	40
1500	16	20	39	50	50	50	50	44
1800	18	25	46	50	50	50	50	50
2000	20	27	50	50	50	50	50	50
2400	24	33	50	50	50	50	50	50
3000	30	41	50	50	50	50	50	50

MODEL SR-K2-100

Size Range	minimum (mm)		maximum (mm)		Lengths (mm)
	widht	height	widht	height	
Serie SR-K2-100	300	200	2400	2100	500 to 4800

other dimensions possible upon request

Performance data Noise Reduction

Length [mm]	f[Hz]							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	Insertion Loss [dB] (EN ISO 7235 standards)							
1000	6	8	19	35	46	44	30	22
1250	8	10	23	43	50	50	35	25
1500	10	12	28	50	50	50	41	28
1800	12	14	33	50	50	50	47	30
2000	12	16	35	50	50	50	50	33
2400	14	20	41	50	50	50	50	36
3000	16	25	49	50	50	50	50	41



MODEL SR-K2-150

Size Range	minimum (mm)		maximum (mm)		Lengths (mm)
	widht	height	widht	height	
Serie SR-K2-150	350	200	2450	2100	500 to 4800

other dimensions possible upon request

Performance data Noise Reduction

Length [mm]	f[Hz]							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	Insertion Loss [dB] (EN ISO 7235 standards)							
1000	5	6	15	30	39	30	19	13
1250	5	7	19	37	46	34	21	15
1500	7	9	23	44	50	40	25	16
1800	7	10	27	50	50	46	27	18
2000	9	12	29	50	50	50	30	18
2400	10	14	33	50	50	50	34	21
3000	11	18	38	50	50	50	38	25

MODEL SR-K2-200

Size Range	minimum (mm)		maximum (mm)		Lengths (mm)
	widht	height	widht	height	
Serie SR-K2-200	400	200	2400	2100	500 to 4800

other dimensions possible upon request

Performance data Noise Reduction

Length [mm]	f[Hz]							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	Insertion Loss [dB] (EN ISO 7235 standards)							
1000	6	4	12	26	31	20	12	9
1250	9	5	15	31	37	24	13	10
1500	9	6	17	36	43	27	15	10
1800	9	7	20	43	50	32	17	12
2000	13	8	22	48	50	34	19	13
2400	12	9	24	50	50	38	20	14
3000	15	10	28	50	50	46	23	15



MODEL SR-K3-100

Size Range	minimum (mm)		maximum (mm)		Lengths (mm)
	widht	height	widht	height	
Serie SR-K3-100	400	300	2400	2100	500 to 4800

other dimensions possible upon request

Performance data Noise Reduction

Length [mm]	f[Hz]							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	Insertion Loss [dB] (EN ISO 7235 standards)							
1000	8	12	27	44	41	45	33	25
1250	10	14	32	43	47	50	37	28
1500	12	17	37	47	50	50	42	29
1800	14	20	43	50	50	50	47	32
2000	14	21	47	50	50	50	50	33
2400	16	25	50	50	50	50	50	37
3000	20	31	50	50	50	50	50	41

MODEL SR-K3-150

Size Range	minimum (mm)		maximum (mm)		Lengths (mm)
	widht	height	widht	height	
Serie SR-K3-150	450	300	2250	2100	500 to 4800

other dimensions possible upon request

Performance data Noise Reduction

Length [mm]	f[Hz]							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	Insertion Loss [dB] (EN ISO 7235 standards)							
1000	6	9	23	30	34	32	22	15
1250	6	12	28	35	40	38	25	17
1500	6	14	32	40	46	45	27	18
1800	8	16	38	48	50	50	31	19
2000	8	18	41	50	50	50	33	21
2400	10	22	48	50	50	50	38	23
3000	11	28	50	50	50	50	44	29



MODEL SR-K3-200

Size Range	minimum (mm)		maximum (mm)		Lengths (mm)
	widht	height	widht	height	
Serie SR-K3-200	500	300	2500	2100	500 to 4800

other dimensions possible upon request

Performance data Noise Reduction

Length [mm]	f[Hz]							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	Insertion Loss [dB] (EN ISO 7235 standards)							
1000	4	8	19	24	26	22	16	11
1250	4	9	23	28	30	27	17	12
1500	6	11	28	33	35	30	20	12
1800	6	13	32	38	40	35	22	14
2000	8	15	35	42	44	38	23	15
2400	8	17	42	49	50	44	26	17
3000	10	22	50	50	50	50	30	18

MODEL SR-K3-300

Size Range	minimum (mm)		maximum (mm)		Lengths (mm)
	widht	height	widht	height	
Serie SR-K3-300	600	300	2400	2100	500 to 4800

other dimensions possible upon request

Performance data Noise Reduction

Length [mm]	f[Hz]							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	Insertion Loss [dB] (EN ISO 7235 standards)							
1000	4	6	15	18	16	13	9	7
1250	4	7	19	21	20	14	10	7
1500	4	8	23	24	24	16	12	8
1800	6	10	27	28	28	19	12	8
2000	6	11	29	31	30	20	13	8
2400	8	13	34	36	36	22	14	8
3000	8	16	43	45	43	27	17	10



Sound Attenuators SR-W series

Splitter Attenuators

Rectangular duct attenuator constructed from galvanised sheet steel, with splitter type acoustic elements. Provided with 20, 30 or 40 mm profile flanges, which are compatible with flanging systems. Acoustic Splitters with spigot ends(up to certain sizes if required).

Materials

- **Outer casing**
-Outer casings of standard rectangular straight silencers shall be made of not less than 1,0 mm; lock former quality galvanized steel, [or 316/304 stainless steel, aluminum].
- **Acoustic Splitters/Baffles**
-Splitters shall be made of not less than 0,6 mm properly stiffened to ensure structural integrity; lock form quality, galvanized steel, [or 316/304 stainless steel, aluminum].

- Acoustically absorptive material of a proper density to obtain the specified acoustic performance and be packed under not less than 5% compression to eliminate voids due to vibration and settling. Material shall be with laminated non-woven glass fibre fabric to provide protection against abrasion at air velocities of up to 20 m/s- Highly bio-degradable, no health risk; moisture-repellent; rot-proof impregnation and non-flammable.

-Anti-erosion supplementary protection – Perforated metal sheet
- **Fire class – A1**

Option selection

[Y] – Acoustic Splitters with spigot ends/Aerodynamically shaped for energy saving (Pressure drop reduction 25% to 30%)

[M] – Melinex lining

Standard Construction Codes

Attenuator series	standard Splitter models	Optional code	
SR-W	SR-W1-40	[Y]	[M]
	SR-W1-50	[Y]	[M]
	SR-W1-75	[Y]	[M]
	SR-W1-100	[Y]	[M]
SR-W	SR-W2-50	[Y]	[M]
	SR-W2-100	[Y]	[M]
	SR-W2-150	[Y]	[M]
	SR-W2-200	[Y]	[M]
SR-W	SR-W3-100	[Y]	[M]
	SR-W3-150	[Y]	[M]
	SR-W3-200	[Y]	[M]
	SR-W3-300	[Y]	[M]

order example

SR-W2-50-1200/1000/1500-[2Y][M]

codes explained:

SR-W2-50 - Sound attenuator model type

1200/1000/1500 - Dimensions - Widht/Height/Length
Optional code [2Y] - Aerodynamic shaped splitters/2 sides

Optional code [M] - With MELINEX lining



MODEL SR-W1-40

Size Range	minimum (mm)		maximum (mm)		Lengths (mm)
	widht	height	widht	height	
Serie SR-W1-40	140	100	2380	2100	500 to 4800

other dimensions possible upon request

Performance data Noise Reduction

Length [mm]	f[Hz]							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	Insertion Loss [dB] (EN ISO 7235 standards)							
1000	9	10	20	34	47	49	46	35
1250	11	12	24	40	50	49	50	40
1500	13	13	29	46	50	49	50	44
1800	15	16	34	50	50	49	50	50
2000	15	17	37	50	50	49	50	50
2400	17	20	44	50	50	49	50	50
3000	20	24	50	50	50	49	50	50

MODEL SR-W1-50

Size Range	minimum (mm)		maximum (mm)		Lengths (mm)
	widht	height	widht	height	
Serie SR-W1-50	150	100	2400	2100	500 to 4800

other dimensions possible upon request

Performance data Noise Reduction

Length [mm]	f[Hz]							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	Insertion Loss [dB] (EN ISO 7235 standards)							
1000	8	9	18	32	45	47	41	31
1250	10	10	23	37	49	49	45	36
1500	12	11	26	43	50	49	50	29
1800	14	13	31	50	50	49	50	46
2000	14	14	34	50	50	49	50	49
2400	16	17	40	50	50	49	50	50
3000	20	20	50	50	50	49	50	50



MODEL SR-W1-75

Size Range	minimum (mm)		maximum (mm)		Lengths (mm)
	widht	height	widht	height	
Serie SR-W1-75	175	100	2450	2100	500 to 4800

other dimensions possible upon request

Performance data Noise Reduction

Length [mm]	f[Hz]							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	Insertion Loss [dB] (EN ISO 7235 standards)							
1000	7	6	13	24	43	45	35	24
1250	9	7	14	28	48	50	39	29
1500	9	7	17	34	50	50	44	33
1800	11	8	21	39	50	50	50	39
2000	11	9	23	42	50	50	50	40
2400	12	11	29	50	50	50	50	46
3000	16	13	35	50	50	50	50	50

MODEL SR-W1-100

Size Range

Size Range	minimum (mm)		maximum (mm)		Lengths (mm)
	widht	height	widht	height	
Serie SR-W1-100	200	100	2400	2100	500 to 4800

other dimensions possible upon request

Performance data Noise Reduction

Length [mm]	f[Hz]							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	Insertion Loss [dB] (EN ISO 7235 standards)							
1000	3	3	10	25	40	40	28	17
1250	3	4	14	30	45	46	33	19
1500	3	4	16	34	50	50	39	22
1800	4	5	20	40	50	50	45	27
2000	4	6	22	44	50	50	49	29
2400	5	5	24	50	50	50	50	34
3000	6	7	30	50	50	50	50	42



MODEL SR-W2-50

Size Range	minimum (mm)		maximum (mm)		Lengths (mm)
	widht	height	widht	height	
Serie SR-W2-50	250	200	2500	2100	500 to 4800

other dimensions possible upon request

Performance data Noise Reduction

Length [mm]	f[Hz]							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	Insertion Loss [dB] (EN ISO 7235 standards)							
1000	12	14	27	47	50	50	46	36
1250	14	17	33	50	50	50	50	40
1500	16	20	39	50	50	50	50	44
1800	18	25	46	50	50	50	50	50
2000	20	27	50	50	50	50	50	50
2400	24	33	50	50	50	50	50	50
3000	30	41	50	50	50	50	50	50

MODEL SR-W2-100

Size Range	minimum (mm)		maximum (mm)		Lengths (mm)
	widht	height	widht	height	
Serie SR-W2-100	300	200	2400	2100	500 to 4800

other dimensions possible upon request

Performance data Noise Reduction

Length [mm]	f[Hz]							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	Insertion Loss [dB] (EN ISO 7235 standards)							
1000	6	8	19	35	46	44	30	22
1250	8	10	23	43	50	50	35	25
1500	10	12	28	50	50	50	41	28
1800	12	14	33	50	50	50	47	30
2000	12	16	35	50	50	50	50	33
2400	14	20	41	50	50	50	50	36
3000	16	25	49	50	50	50	50	41



MODEL SR-W2-150

Size Range	minimum (mm)		maximum (mm)		Lengths (mm)
	widht	height	widht	height	
Serie SR-W2-150	350	200	2450	2100	500 to 4800

other dimensions possible upon request

Performance data Noise Reduction

Length [mm]	f[Hz]							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	Insertion Loss [dB] (EN ISO 7235 standards)							
1000	5	6	15	30	39	30	19	13
1250	5	7	19	37	46	34	21	15
1500	7	9	23	44	50	40	25	16
1800	7	10	27	50	50	46	27	18
2000	9	12	29	50	50	50	30	18
2400	8	14	33	50	50	50	34	21
3000	11	18	38	50	50	50	38	25

MODEL SR-W2-200

Size Range	minimum (mm)		maximum (mm)		Lengths (mm)
	widht	height	widht	height	
Serie SR-W2-200	400	200	2400	2100	500 to 4800

other dimensions possible upon request

Performance data Noise Reduction

Length [mm]	f[Hz]							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	Insertion Loss [dB] (EN ISO 7235 standards)							
1000	6	4	12	26	31	20	12	9
1250	9	5	15	31	37	24	13	10
1500	9	6	17	36	43	27	15	10
1800	9	7	20	43	50	32	17	12
2000	13	8	22	48	50	34	19	13
2400	12	9	24	50	50	38	20	14
3000	15	10	28	50	50	46	23	15



MODEL SR-W3-100

Size Range	minimum (mm)		maximum (mm)		Lengths (mm)
	widht	height	widht	height	
Serie SR-W3-100	400	300	2400	2100	500 to 4800

other dimensions possible upon request

Performance data Noise Reduction

Length [mm]	f[Hz]							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	Insertion Loss [dB] (EN ISO 7235 standards)							
1000	8	12	27	44	41	45	33	25
1250	10	14	32	43	47	50	37	28
1500	12	17	37	47	50	50	42	29
1800	14	20	43	50	50	50	47	32
2000	14	21	47	50	50	50	50	33
2400	16	25	50	50	50	50	50	37
3000	20	31	50	50	50	50	50	41

MODEL SR-W3-150

Size Range	minimum (mm)		maximum (mm)		Lengths (mm)
	widht	height	widht	height	
Serie SR-W3-150	450	300	2250	2100	500 to 4800

other dimensions possible upon request

Performance data Noise Reduction

Length [mm]	f[Hz]							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	Insertion Loss [dB] (EN ISO 7235 standards)							
1000	6	9	23	30	34	32	22	15
1250	6	12	28	35	40	38	25	17
1500	6	14	32	40	46	45	27	18
1800	8	16	38	48	50	50	31	19
2000	8	18	41	50	50	50	33	21
2400	10	22	48	50	50	50	38	23
3000	11	28	50	50	50	50	44	29



MODEL SR-W3-200

Size Range	minimum (mm)		maximum (mm)		Lengths (mm)
	widht	height	widht	height	
Serie SR-W3-200	500	300	2500	2100	500 to 4800

other dimensions possible upon request

Performance data Noise Reduction

Length [mm]	f[Hz]							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	Insertion Loss [dB] (EN ISO 7235 standards)							
1000	4	8	19	24	26	22	16	11
1250	4	9	23	28	30	27	17	12
1500	6	11	28	33	35	30	20	12
1800	6	13	32	38	40	35	22	14
2000	8	15	35	42	44	38	23	15
2400	8	17	42	49	50	44	26	17
3000	10	22	50	50	50	50	30	18

MODEL SR-W3-300

Size Range	minimum (mm)		maximum (mm)		Lengths (mm)
	widht	height	widht	height	
Serie SR-W3-300	600	300	2400	2100	500 to 4800

other dimensions possible upon request

Performance data Noise Reduction

Length [mm]	f[Hz]							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	Insertion Loss [dB] (EN ISO 7235 standards)							
1000	4	6	15	18	16	13	9	7
1250	4	7	19	21	20	14	10	7
1500	4	8	23	24	24	16	12	8
1800	6	10	27	28	28	19	12	8
2000	6	11	29	31	30	20	13	8
2400	8	13	34	36	36	22	14	8
3000	8	16	43	45	43	27	17	10



Sound Attenuators **SR-R series**

Metro Lines

designed for 400^o/2 hours

Ventilation shafts

Tunnel ventilation



Splitter Attenuators

Rectangular duct attenuator constructed from galvanised sheet steel, with splitter type acoustic elements. provided with 40 mm profile flanges . Acoustic Splitters with spigot ends(up to certain sizes if required).

Materials

- **Outer casing**
-Outer casings of standard rectangular straight silencers shall be made of not less than 1,25 to 2,50 mm quality galvanized steel.
- **Acoustic Splitters/Baffles**
-Splitters shall be made of not less than 1,0 mm properly stiffened to ensure structural integrity; lock form quality, galvanized steel.
- Acoustically absorptive material of a proper density to obtain the specified acoustic performance and be packed under not less than 5% compression to eliminate voids due to vibration and settling. Material shall be with laminated non-woven glass fibre fabric to provide protection against abrasion at air velocities of up to 20 m/s- Highly bio-degradable, no health risk; moisture-repellent; rot-proof impregnation and non-flammable.
- Perforated metal sheet
- C1 to C5 special coating for corrosivity environments if required
- Fire class – A1

Option selection

[Y] – Acoustic Splitters with spigot ends/Aerodynamically shapped for energy saving (Pressure drop reduction 25% to 30%)

Standard Construction Codes

Attenuator series	standard Splitter models	Optional code
SR-R	SR-R1-40	[Y]
	SR-R1-50	[Y]
	SR-R1-75	[Y]
	SR-R1-100	[Y]
SR-R	SR-R2-50	[Y]
	SR-R2-100	[Y]
	SR-R2-150	[Y]
	SR-R2-200	[Y]
SR-R	SR-R3-100	[Y]
	SR-R3-150	[Y]
	SR-R3-200	[Y]
	SR-R3-300	[Y]

order example

SR-R3-150-2250/1800/2000-[2Y]

codes explained:

SR-R3-150 - Sound attenuator model type

2250/1800/2000 - Dimensions - Widht/Height/Length

Optional code [2Y] - Aerodynamic shapped splitters/2 sides



MODEL SR-R-40

Size Range	minimum (mm)		maximum (mm)		Lengths (mm)
	widht	height	widht	height	
Serie SR-R1-40	1400	600	2380	2100	500 to 4800

other dimensions possible upon request

Performance data Noise Reduction

Length [mm]	f[Hz]							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	Insertion Loss [dB] (EN ISO 7235 standards)							
1000	9	10	20	34	47	49	46	35
1250	11	12	24	40	50	49	50	40
1500	13	13	29	46	50	49	50	44
1800	15	16	34	50	50	49	50	50
2000	15	17	37	50	50	49	50	50
2400	17	20	44	50	50	49	50	50
3000	20	24	50	50	50	49	50	50

MODEL SR-R1-50

Size Range	minimum (mm)		maximum (mm)		Lengths (mm)
	widht	height	widht	height	
Serie SR-R1-50	1200	600	2400	2100	500 to 4800

other dimensions possible upon request

Performance data Noise Reduction

Length [mm]	f[Hz]							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	Insertion Loss [dB] (EN ISO 7235 standards)							
1000	8	9	18	32	45	47	41	31
1250	10	10	23	37	49	49	45	36
1500	12	11	26	43	50	49	50	29
1800	14	13	31	50	50	49	50	46
2000	14	14	34	50	50	49	50	49
2400	16	17	40	50	50	49	50	50
3000	20	20	50	50	50	49	50	50



MODEL SR-R1-75

Size Range	minimum (mm)		maximum (mm)		Lengths (mm)
	widht	height	widht	height	
Serie SR-R1-75	1400	600	2450	2100	500 to 4800

other dimensions possible upon request

Performance data Noise Reduction

Length [mm]	f[Hz]							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	Insertion Loss [dB] (EN ISO 7235 standards)							
1000	7	6	13	24	43	45	35	24
1250	9	7	14	28	48	50	39	29
1500	9	7	17	34	50	50	44	33
1800	11	8	21	39	50	50	50	39
2000	11	9	23	42	50	50	50	40
2400	12	11	29	50	50	50	50	46
3000	16	13	35	50	50	50	50	50

MODEL SR-R1-100

Size Range	minimum (mm)		maximum (mm)		Lengths (mm)
	widht	height	widht	height	
Serie SR-R1-100	1000	600	2400	2100	500 to 4800

other dimensions possible upon request

Performance data Noise Reduction

Length [mm]	f[Hz]							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	Insertion Loss [dB] (EN ISO 7235 standards)							
1000	3	3	10	25	40	40	28	17
1250	3	4	14	30	45	46	33	19
1500	3	4	16	34	50	50	39	22
1800	4	5	20	40	50	50	45	27
2000	4	6	22	44	50	50	49	29
2400	5	5	24	50	50	50	50	34
3000	6	7	30	50	50	50	50	42



MODEL SR-R2-50

Size Range	minimum (mm)		maximum (mm)		Lengths (mm)
	widht	height	widht	height	
Serie SR-R2-50	1000	600	2500	2100	500 to 4800

other dimensions possible upon request

Performance data Noise Reduction

Length [mm]	f[Hz]							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	Insertion Loss [dB] (EN ISO 7235 standards)							
1000	12	14	27	47	50	50	46	36
1250	14	17	33	50	50	50	50	40
1500	16	20	39	50	50	50	50	44
1800	18	25	46	50	50	50	50	50
2000	20	27	50	50	50	50	50	50
2400	24	33	50	50	50	50	50	50
3000	30	41	50	50	50	50	50	50

MODEL SR-R2-100

Size Range	minimum (mm)		maximum (mm)		Lengths (mm)
	widht	height	widht	height	
Serie SR-R2-100	900	600	2400	2100	500 to 4800

other dimensions possible upon request

Performance data Noise Reduction

Length [mm]	f[Hz]							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	Insertion Loss [dB] (EN ISO 7235 standards)							
1000	6	8	19	35	46	44	30	22
1250	8	10	23	43	50	50	35	25
1500	10	12	28	50	50	50	41	28
1800	12	14	33	50	50	50	47	30
2000	12	16	35	50	50	50	50	33
2400	14	20	41	50	50	50	50	36
3000	16	25	49	50	50	50	50	41



MODEL SR-R2-150

Size Range	minimum (mm)		maximum (mm)		Lengths (mm)
	widht	height	widht	height	
Serie SR-R2-150	1400	600	2450	2100	500 to 4800

other dimensions possible upon request

Performance data Noise Reduction

Length [mm]	f[Hz]							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	Insertion Loss [dB] (EN ISO 7235 standards)							
1000	5	6	15	30	39	30	19	13
1250	5	7	19	37	46	34	21	15
1500	7	9	23	44	50	40	25	16
1800	7	10	27	50	50	46	27	18
2000	9	12	29	50	50	50	30	18
2400	8	14	33	50	50	50	34	21
3000	11	18	38	50	50	50	39	25

MODEL SR-R2-200

Size Range	minimum (mm)		maximum (mm)		Lengths (mm)
	widht	height	widht	height	
Serie SR-R2-200	1200	600	2400	2100	500 to 4800

other dimensions possible upon request

Performance data Noise Reduction

Length [mm]	f[Hz]							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	Insertion Loss [dB] (EN ISO 7235 standards)							
1000	6	4	12	26	31	20	12	9
1250	9	5	15	31	37	24	13	10
1500	9	6	17	36	43	27	15	10
1800	9	7	20	43	50	32	17	12
2000	13	8	22	48	50	34	19	13
2400	12	9	24	50	50	38	20	14
3000	15	10	28	50	50	46	23	15



MODEL SR-R3-100

Size Range	minimum (mm)		maximum (mm)		Lengths (mm)
	widht	height	widht	height	
Serie SR-R3-100	1200	600	2400	2100	500 to 4800

other dimensions possible upon request

Performance data Noise Reduction

Length [mm]	f[Hz]							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	Insertion Loss [dB] (EN ISO 7235 standards)							
1000	8	12	27	44	41	45	33	25
1250	10	14	32	43	47	50	37	28
1500	12	17	37	47	50	50	42	29
1800	14	20	43	50	50	50	47	32
2000	14	21	47	50	50	50	50	33
2400	16	25	50	50	50	50	50	37
3000	20	31	50	50	50	50	50	41

MODEL SR-R3-150

Size Range	minimum (mm)		maximum (mm)		Lengths (mm)
	widht	height	widht	height	
Serie SR-R3-150	1350	600	2250	2100	500 to 4800

other dimensions possible upon request

Performance data Noise Reduction

Length [mm]	f[Hz]							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	Insertion Loss [dB] (EN ISO 7235 standards)							
1000	6	9	23	30	34	32	22	15
1250	6	12	28	35	40	38	25	17
1500	6	14	32	40	46	45	27	18
1800	8	16	38	48	50	50	31	19
2000	8	18	41	50	50	50	33	21
2400	10	22	48	50	50	50	38	23
3000	11	28	50	50	50	50	44	29



MODEL SR-R3-200

Size Range	minimum (mm)		maximum (mm)		Lengths (mm)
	widht	height	widht	height	
Serie SR-R3-200	1000	600	2500	2100	500 to 4800

other dimensions possible upon request

Performance data Noise Reduction

Length [mm]	f[Hz]							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	Insertion Loss [dB] (EN ISO 7235 standards)							
1000	4	8	19	24	26	22	16	11
1250	4	9	23	28	30	27	17	12
1500	6	11	28	33	35	30	20	12
1800	6	13	32	38	40	35	22	14
2000	8	15	35	42	44	38	23	15
2400	8	17	42	49	50	44	26	17
3000	10	22	50	50	50	50	30	18

MODEL SR-R3-300

Size Range	minimum (mm)		maximum (mm)		Lengths (mm)
	widht	height	widht	height	
Serie SR-R3-300	1200	600	2400	2100	500 to 4800

other dimensions possible upon request

Performance data Noise Reduction

Length [mm]	f[Hz]							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	Insertion Loss [dB] (EN ISO 7235 standards)							
1000	4	6	15	18	16	13	9	7
1250	4	7	19	21	20	14	10	7
1500	4	8	23	24	24	16	12	8
1800	6	10	27	28	28	19	12	8
2000	6	11	29	31	30	20	13	8
2400	8	13	34	36	36	22	14	8
3000	8	16	43	45	43	27	17	10



AIRTEK SCS series

Standard Construction Codes



Attenuator series	nominal diameter Dn	external diameter Dx	standard Length (mm)	Optional code
SCS-50	100	200	500	[M]
			1000	[M]
	125	225	500	[M]
			1000	[M]
	150	250	500	[M]
			1000	[M]
	160	250	500	[M]
			1000	[M]
	200	300	500	[M]
			1000	[M]
	225	315	500	[M]
			1000	[M]
250	350	500	[M]	
		1000	[M]	
300	400	500	[M]	
		1000	[M]	
315	400	500	[M]	
		1000	[M]	

Circular Attenuators

Circular duct attenuator constructed from galvanised sheet steel, acoustic infill and perforated metal sheet

Applications

For ventilation ducts or air conditioning installation, to reduce airborne noise transmission.

Materials

- Outer casing**
 -Outer casings of standard circular attenuators silencers shall be made of quality galvanized steel, [or 316/304 stainless steel, aluminum].
- Acoustic infill faced with perforated sheet steel**
 - Acoustically absorptive material of a proper density to obtain the specified acoustic performance and be packed under not less than 5% compression to eliminate voids due to vibration and settling. Material shall be with laminated non-woven glass fibre fabric to provide protection against abrasion at air velocities of up to 20 m/s- Highly bio-degradable, no health risk; moisture-repellent; rot-proof impregnation and non-flammable.

Fire class – A1

Option selection

[M] – Melinex lining

order example

SCS-50-DN250/1000 [M]

codes explained:

SCS-50 - Sound attenuator model with 50 mm thickness
 DN250/1000 - Nominal diam/Length
 Optional code [M] - Melinex infill

all type of Lengths possible upon request



SCS-50 Dn	standard Length (mm)	Static Attenuation (EN ISO 7235)							
		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
100	500	3	5	8	14	23	30	18	13
	1000	4	9	15	27	42	50	43	25
125	500	3	4	7	12	21	23	21	10
	1000	4	7	12	23	38	42	29	20
150	500	2	3	7	10	19	17	9	9
	1000	3	6	10	20	35	30	19	15
160	500	2	3	6	10	18	17	8	8
	1000	3	5	9	19	34	30	18	15
200	500	1	2	5	9	16	13	5	6
	1000	2	4	8	16	31	22	12	11
225	500	1	2	5	8	15	12	4	4
	1000	2	4	7	15	29	20	10	9
250	500	1	2	4	8	14	10	3	4
	1000	2	3	6	14	28	17	8	9
300	500	1	1	3	7	12	7	2	3
	1000	1	2	5	12	25	13	5	6
315	500	1	1	3	7	12	7	2	3
	1000	1	2	5	12	25	13	5	6

Other Lengths possible upon request



Attenuator series	nominal diameter Dn	external diameter Dx	standard Length (mm)	Optional code
SCS-100	250	450	500	[M]
			1000	[M]
	300	500	500	[M]
			1000	[M]
	315	500	500	[M]
			1000	[M]
	355	560	500	[M]
			1000	[M]
	400	600	500	[M]
			1000	[M]
	450	650	500	[M]
			1000	[M]
	500	700	500	[M]
			1000	[M]
	560	710	1250	[M]
			560	[M]
	600	800	1000	[M]
			1250	[M]
	630	800	630	[M]
			1000	[M]
	710	900	1250	[M]
			710	[M]
	800	1000	1000	[M]
			1500	[M]
	900	1210	800	[M]
			1000	[M]
	1000	1250	1500	[M]
			2000	[M]
	1120	1400	1000	[M]
			1500	[M]
	1250	1500	1120	[M]
			1500	[M]
			1250	[M]
			1500	[M]
			2000	[M]

order example

SCS-100-DN600/1000 [M]

codes explained:

SCS-100 - Sound attenuator model with 100 mm thickness
DN600/1000 - Nominal diam/Length
Optional code [M] - Melinex infill

Circular Attenuators

Circular duct attenuator constructed from galvanised sheet steel, acoustic infill and perforated metal sheet

Applications

For ventilation ducts or air conditioning installation, to reduce airborne noise transmission.

Materials

- **Outer casing**
-Outer casings of standard circular attenuators silencers shall be made of quality galvanized steel, [or 316/304 stainless steel, aluminum].
- **Acoustic infill faced with perforated sheet steel**
- Acoustically absorptive material of a proper density to obtain the specified acoustic performance and be packed under not less than 5% compression to eliminate voids due to vibration and settling. Material shall be with laminated non-woven glass fibre fabric to provide protection against abrasion at air velocities of up to 20 m/s- Highly biodegradable, no health risk; moisture-repellent; rot-proof impregnation and non-flammable.

Fire class – A1

Option selection

[M] – Melinex lining

other diameters upon request

other Lengths possible upon request



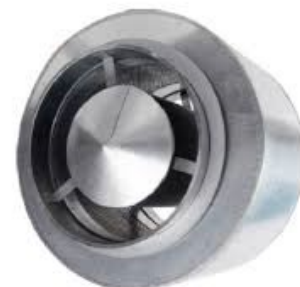
SCS-100 Dn	standard Length (mm)	Static Attenuation (EN ISO 7235)							
		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
250	500	2	4	7	14	21	13	6	5
	1000	3	8	14	26	33	21	11	9
300	500	2	3	6	13	18	10	4	4
	1000	3	6	12	24	29	16	8	7
315	500	2	3	6	13	18	10	4	4
	1000	3	6	12	24	29	16	8	7
355	500	2	3	5	11	16	9	4	3
	1000	3	6	11	22	27	14	9	8
400	500	1	3	6	12	17	8	3	3
	1000	2	5	11	23	25	12	5	5
450	500	1	3	6	15	13	11	9	7
	1000	2	5	10	22	23	11	4	5
500	500	1	2	6	15	12	10	8	7
	1000	2	4	10	21	22	10	4	4
	1250	2	6	14	30	27	13	5	6
560	560	1	2	6	15	12	10	8	7
	1000	2	4	10	21	22	10	4	4
	1250	2	6	14	30	27	13	5	6
600	600	1	3	8	17	14	12	7	6
	1000	2	6	11	22	16	15	9	7
	1250	3	7	14	28	21	17	12	11
630	630	1	3	8	17	14	12	7	6
	1000	2	6	11	22	16	15	9	7
	1250	3	7	14	28	21	17	12	11
710	710	1	3	9	15	11	9	8	8
	1000	2	4	9	21	14	12	9	8
	1500	3	5	13	17	17	14	11	9
800	800	2	4	9	12	11	8	7	5
	1200	3	5	15	25	34	28	16	13
	1500	3	6	17	32	43	35	21	17
900	1000	2	4	9	15	10	8	7	6
	1500	2	6	13	19	14	9	8	7
	2000	4	7	17	26	16	13	10	9
1000	1000	2	5	10	14	10	6	5	4
	1500	3	6	14	19	12	8	8	6
	2000	4	7	18	25	15	9	8	8
1120	1120	2	6	15	21	22	15	8	7
	1500	3	10	21	29	34	22	13	11
	2000	6	14	27	38	43	26	15	12
1250	1250	2	3	11	15	9	7	5	4
	1500	2	2	14	17	10	7	5	4
	2500	3	8	19	22	11	8	6	5

Other Lengths possible upon request



AIRTEK SCT series

Standard Construction Codes



Attenuator series	nominal diameter Dn	external diameter Dx	standard Length (mm)	Optional code
SCT	315	500	500	[M]
			1000	[M]
	355	560	500	[M]
			1000	[M]
	400	600	500	[M]
			1000	[M]
	450	650	500	[M]
			1000	[M]
	500	700	500	[M]
			1000	[M]
	560	710	560	[M]
			1000	[M]
			1250	[M]
	600	800	600	[M]
			1000	[M]
			1250	[M]
	630	800	630	[M]
			1000	[M]
			1250	[M]
	710	900	710	[M]
			1000	[M]
			1500	[M]
	800	1000	800	[M]
			1000	[M]
			1500	[M]
	900	1210	900	[M]
			1500	[M]
			2000	[M]
	1000	1250	1000	[M]
			1500	[M]
			2000	[M]
	1120	1400	1120	[M]
			1500	[M]
			2000	[M]
	1250	1500	1250	[M]
			1500	[M]
			2500	[M]

Circular Attenuators with central pod

Circular duct attenuator constructed from galvanised sheet steel, acoustic infill and perforated metal sheet, with central pod

Applications

For ventilation ducts or air conditioning installation, to reduce airborne noise transmission.

Materials

- Outer casing**
 -Outer casings of standard circular attenuators silencers shall be made of quality galvanized steel, [or 316/304 stainless steel, aluminum].
- Acoustic infill faced with perforated sheet steel**
 - Acoustically absorptive material of a proper density to obtain the specified acoustic performance and be packed under not less than 5% compression to eliminate voids due to vibration and settling. Material shall be with laminated non-woven glass fibre fabric to provide protection against abrasion at air velocities of up to 20 m/s- Highly bio-degradable, no health risk; moisture-repellent; rot-proof impregnation and non-flammable.
- Central Pod**

Fire class – A1

Option selection

[M] – Melinex lining

order example

SCT-DN900/1500 [M]

codes explained:

SCT - Sound attenuator model
with central Pod
DN600/1000 - Nominal diam/Length
Optional code [M] - Melinex infill

other diameters upon request

other Lengths possible upon request



SCT	standard Length (mm)	Static Attenuation (EN ISO 7235)								
		Dn	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
315	500		2	5	9	16	21	20	21	18
	1000		4	9	15	27	34	45	39	27
355	500		2	4	8	15	19	19	17	15
	1000		5	8	14	25	32	41	37	25
400	500		1	4	8	14	18	17	16	14
	1000		3	7	13	25	40	38	29	21
450	500		1	4	7	14	16	16	14	12
	1000		3	7	12	24	39	35	26	18
500	500		1	3	7	13	16	15	13	11
	1000		2	6	12	23	38	33	24	17
	1250		5	9	16	30	50	50	33	21
560	500		1	3	6	13	15	14	11	10
	1000		2	6	11	22	36	31	21	15
	1250		4	8	15	30	50	48	29	19
600	500		1	3	6	12	15	13	10	9
	1000		2	5	11	21	34	29	19	13
	1250		4	8	14	29	50	44	26	16
630	500		1	3	6	12	15	13	10	9
	1000		2	5	11	21	34	29	19	13
	1250		4	8	14	29	50	44	26	16
710	500		1	3	6	12	14	12	9	8
	1000		2	5	10	20	33	27	17	12
	1500		4	7	13	28	50	41	23	14
800	500		1	2	5	11	13	11	8	7
	1000		2	5	9	19	31	25	14	10
	1500		3	6	13	26	49	37	20	12
900	1000		2	4	9	18	30	23	13	9
	1500		3	6	12	24	47	34	17	11
	2000		5	12	19	29	50	38	23	19
1000	1000		2	4	8	17	29	22	12	8
	1500		3	6	11	23	45	33	16	10
	2000		4	11	17	27	45	34	21	17
1120	1120		2	4	8	17	29	22	12	8
	1500		3	6	11	23	42	33	16	10
	2000		4	11	16	26	44	34	20	17
1250	1250		3	8	15	19	22	14	10	8
	1500		3	10	19	27	31	16	11	8
	2000		5	14	28	37	39	18	12	10

Other Lengths possible upon request

ACÚSTICA | TÉRMICA | VIBRAÇÕES



DADOS CORPORATIVOS | CAE 45320 | NIF 507 546 300

Sede: Lugar de Assilhó, lote1, 3850-076 Albergaria-a-Velha | Porto: 220 138 550 | Aveiro: 234 580 195 | Lisboa: 210 155 113

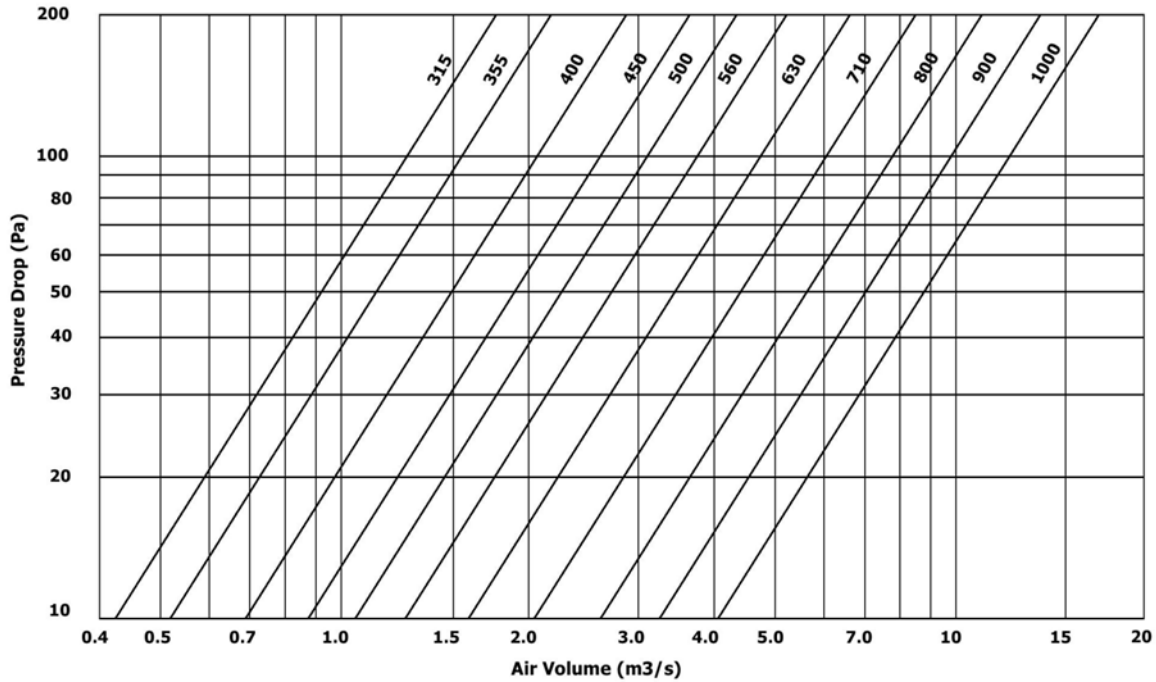
Tlm: 919 499 463 | 938 160 546 - Fax geral: 234 580 197 | E-mail: geral@acustekpro.com | Web: www.acustekpro.com





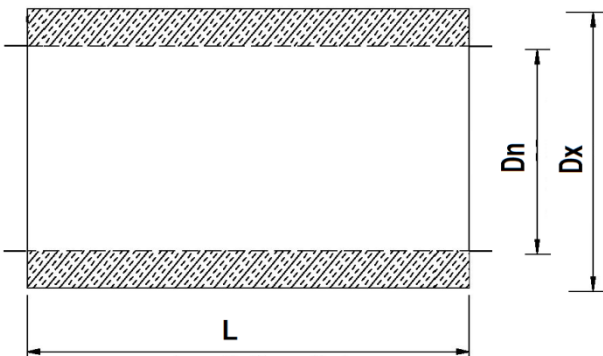
Pressure loss for AIRTEK - SCT

circular sound attenuators with central Pod



Pressure Loss for AIRTEK – SCS circular sound attenuator without central Pod is negligible

Sound Attenuator SCS series



Sound Attenuator SCT series

