SCB ZN

Circular simple silencer with male spigot connection in galvanized steel

ACOUSTIC



Description and application:
Circular silencer made of high-performance acoustic materials, designed to provide effective noise attenuation while maintaining low pressure drop.
It is ideal for applications requiring a high level of acoustic comfort and reduced sound transmission within air distribution systems.
Suitable for attenuating noise generated by fans and airflow in main, secondary or terminal ducts of ventilation and air-conditioning systems, for both supply and return air applications, in both commercial and industrial environments.

Construction:
- Execution made of Z200 galvanized steel;
- Frame/Casing riveted, thickness 0,5 mm;
- Male connection on both sides, with external silicone gasket;
- Silicone sealing between the connection and the flanges to prevent air leakage;
- Sound-absorbing material in rock wool, thickness 50 mm, density 30 kg/m³, covered with black glass fiber veil;
- Micro-expanded mesh protecting the glass veil and sound-absorbing material.

Available executions:
- Execution made of stainless steel AISI 316L finishing 2B (**X6** version).

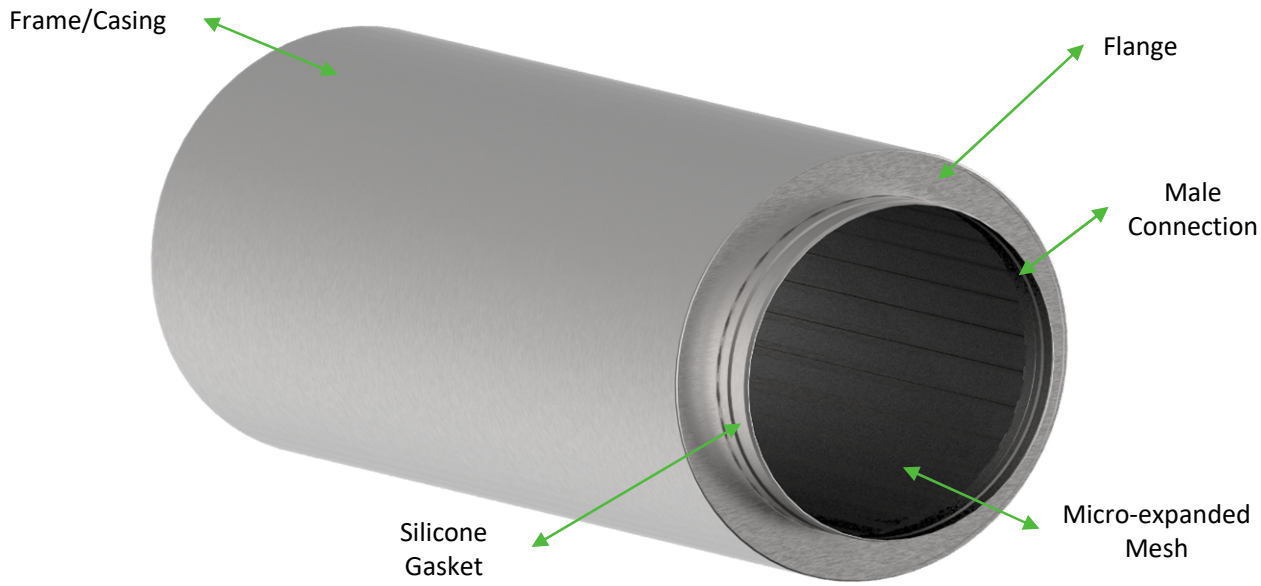
Operating limits:
- Dimension: min Ø100 mm / max Ø500 mm, with Lenght L = 600 mm or L = 900 mm;
- Temperature: +150 °C;
- Dimensional std drawing and weight: page 2;
- Effective V_{max}: 20 m/s;
- Performance and attenuation data: page 3.

Certifications and Testing:
- Sound-absorbing material with Euroclass A1 fire resistance in accordance with EN 13501;
- Pressure drop and Insertion Loss attenuation tests carried out internally at our laboratory.

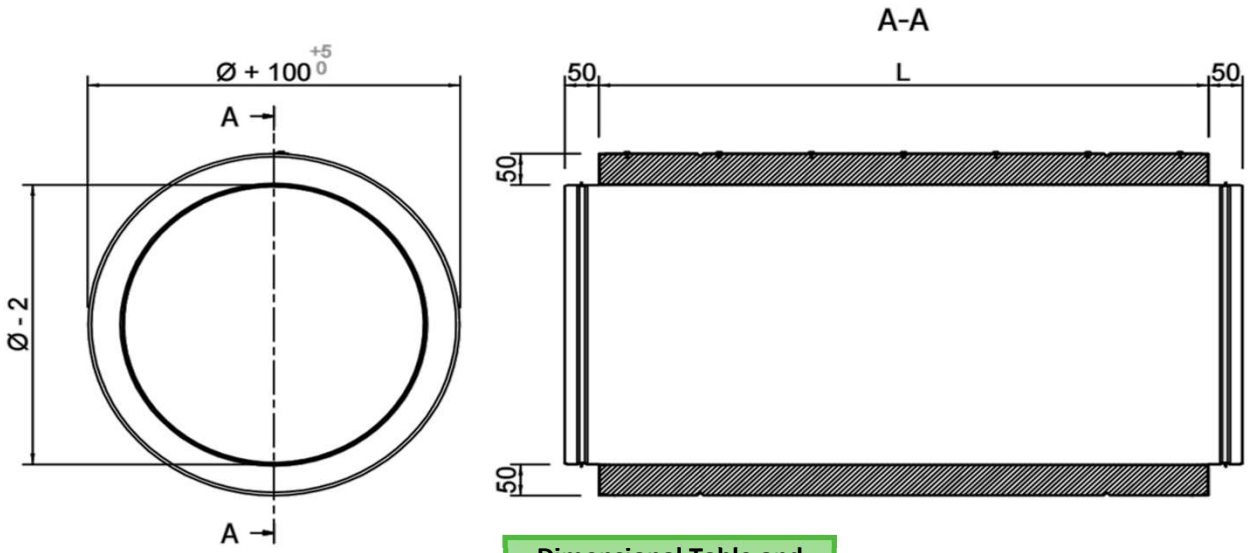
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Additional Construction Details SCB



Dimensional Drawing and Standard Size Table (size in mm referred to the nominal diameter)



Dimensional Table and Weight SCB		
Ø	L [mm]	
	600	900
[mm]	[Kg]	[Kg]
100	3,5	5
125	4	6
160	5	7
200	6	9
250	7	11
315	8,5	12,5
355	9,5	13
400	11	16
450	12	18
500	14	21

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Pressure Drop Table SCB									
Ø	A	V effective [m/s]							
		2,5	5	7,5	10	12,5	15	17,5	20
[mm]	[m^2]	Airflow [m^3/h]							
100	0,008	68	136	204	271	339	407	475	543
125	0,012	107	214	321	428	534	641	748	855
160	0,020	176	353	529	705	882	1058	1235	1411
200	0,031	277	554	831	1108	1385	1662	1939	2216
250	0,049	435	869	1304	1738	2173	2607	3042	3476
315	0,078	692	1384	2076	2769	3461	4153	4845	5537
355	0,099	880	1761	2641	3521	4402	5282	6163	7043
400	0,126	1119	2238	3357	4476	5596	6715	7834	8953
450	0,159	1418	2836	4254	5672	7090	8508	9926	11344
500	0,196	1752	3504	5256	7009	8761	10513	12265	14017
PRESSURE DROP SCB		Δp [Pa]							
		0	**2**	**3,5**	**5,5**	**7**	**9**	**13**	**15**

Attenuation Table SCB								
Ø	L	Frequency [Hz]						
		125	250	500	1000	2000	4000	8000
[mm]	[mm]	[dB]						
100	600	9	14	27	41	44	38	22
	900	10	16	34	49	47	47	26
125	600	8	12	24	36	36	30	19
	900	8	14	29	49	46	36	22
160	600	4	10	19	34	30	19	14
	900	4	13	24	47	38	24	17
200	600	3	10	15	29	26	14	14
	900	3	11	20	41	34	19	17
250	600	2	8	14	25	12	6	7
	900	3	8	19	37	20	10	10
315	600	2	6	12	14	9	5	5
	900	2	6	16	25	17	9	7
355	600	2	6	7	12	6	3	4
	900	2	6	13	23	12	7	6
400	600	2	4	5	10	4	3	2
	900	2	4	10	22	9	7	5
450	600	1	2	5	4	2	2	2
	900	2	2	7	16	7	6	5
500	600	1	1	4	2	1	1	1
	900	2	3	6	10	5	5	3

AZIENDA CON SISTEMA DI GESTIONE QUALITÀ CERTIFICATO DA DNV GL
ISO 9001

AZIENDA CON SISTEMA DI GESTIONE AMBIENTALE CERTIFICATO DA DNV
ISO 14001



CLA & UTEK reserves the right to make any necessary changes at any time to improve the products, without prior notice.



C.L.A. S.r.l. Via Strada Artigianale Angelo Lapsus 310, 23036 San Giacomo di Teglio (So) Italy Tel.+39 0342 786116 | utek-air.it | cla-air.it