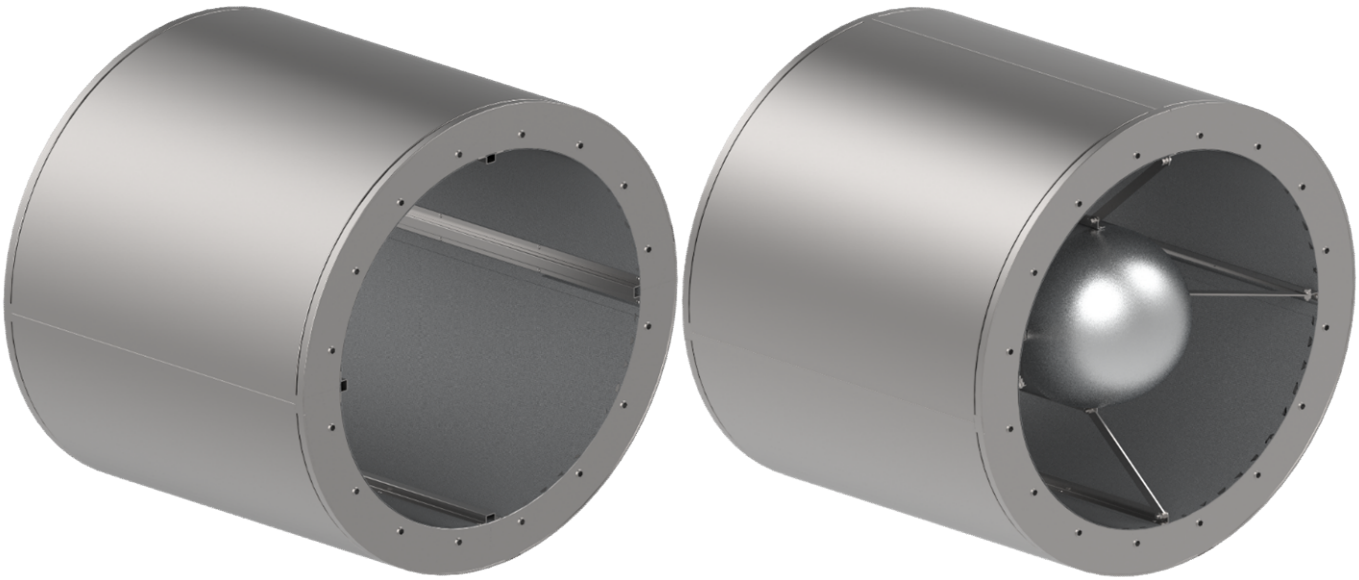
SC - SCO ZN

Circular light silencer, simple model (SC), or complete with central splitter pod model (SCO), 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 0,8 mm;
- Circular flange, thickness 1 mm (with Ø ≤ 1000 mm), thickness 1,2 mm (with Ø > 1000 mm), drilled and equipped with threaded inserts for installation;
- Internal silicone sealing of the casing and flanges to limit air leakage at the joints;
- Sound-absorbing material in rock wool, density 70 kg/m³, covered with black glass fiber veil;
- Micro-expanded mesh protecting the glass veil and sound-absorbing material.

Available executions:
- Optional removable lifting eyebolts (where not included as standard);
- Execution with internal splitter pod to increase noise attenuation capacity (**SCO** model);
- Execution made of stainless steel AISI 304 finishing 2B (**X4** version) / AISI 316L finishing 2B (**X6** version);
- Powder-coated finish (available only for galvanized steel **ZN** version) see dedicated technical data sheet for available colours and types.

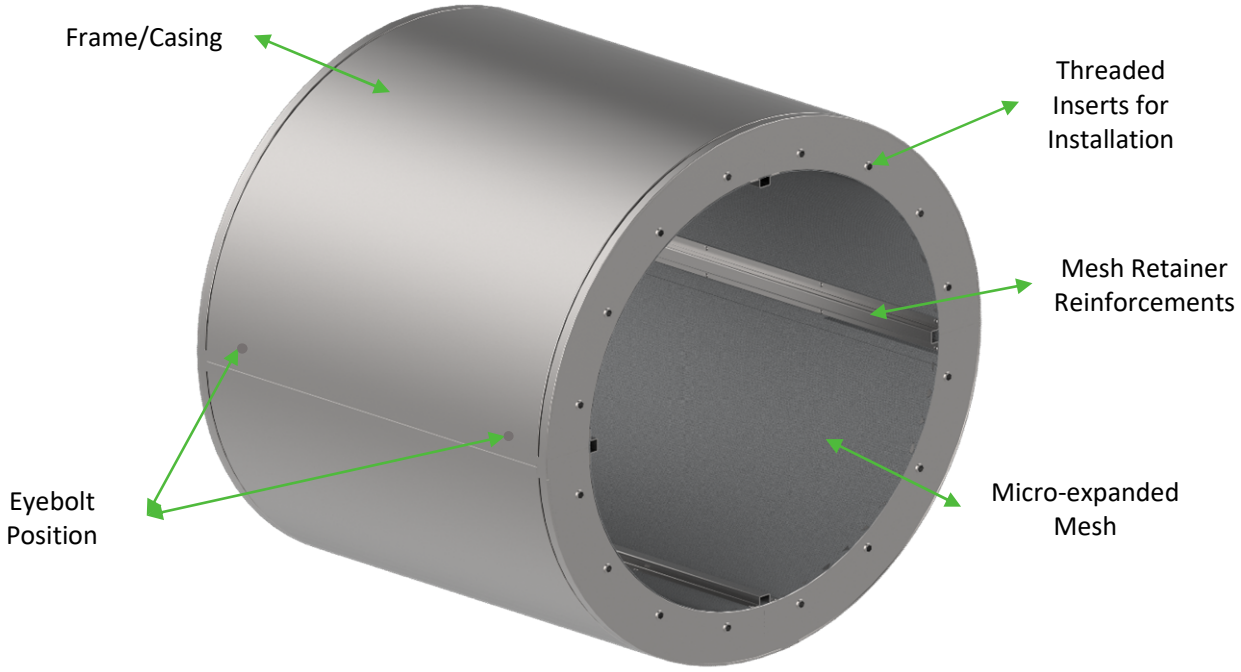
Operating limits:
- Dimension: min Ø250 mm / max Ø1250 mm, with length 1Ø / 1,5Ø / 2Ø;
- Maximum temperature: +150 °C;
- Dimensional std drawing, drilling and weight table: page 3;
- Effective V_{max}: 20 m/s;
- Pressure drop data: page 4;
- Attenuation data: pages 5 and 6.

Certifications and Testing:
- Sound-absorbing material with Euroclass A1 fire resistance in accordance with EN 13501;
- Insertion Loss attenuation tests carried out in accordance with ISO 7235 at CETIAT Institute in Lyon (test report no. 95-80180).

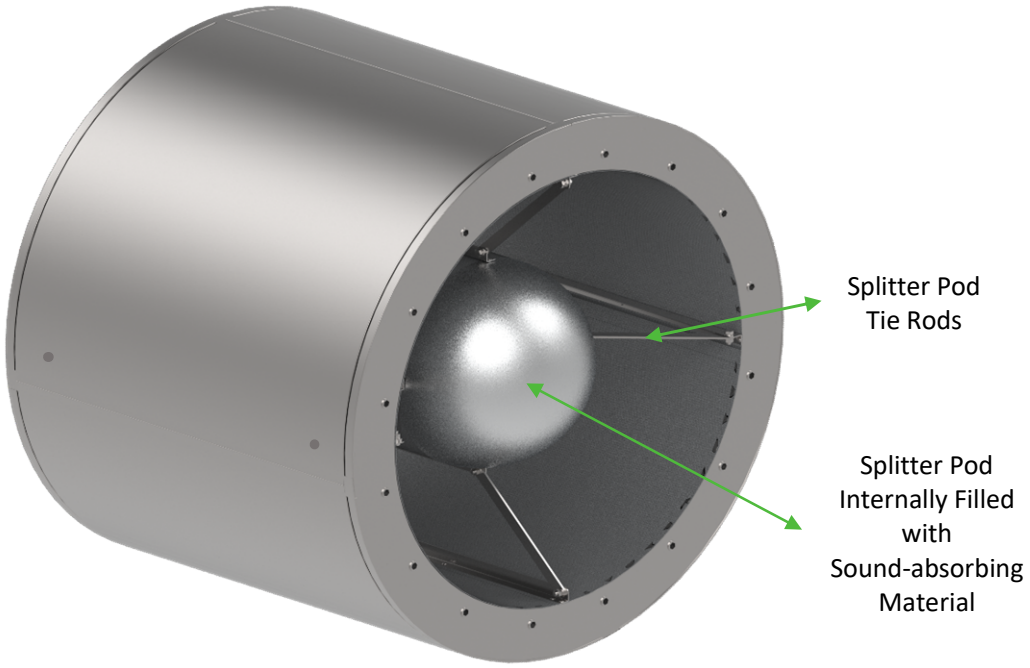
SC - SCO ZN

Circular light silencer, simple model (SC), or complete with central splitter pod model (SCO), in galvanized steel

Additional Construction Details SC



Additional Construction Details SCO



Option and Available Execution

Lifting
Removable eyebolts (kit of 2 pcs)

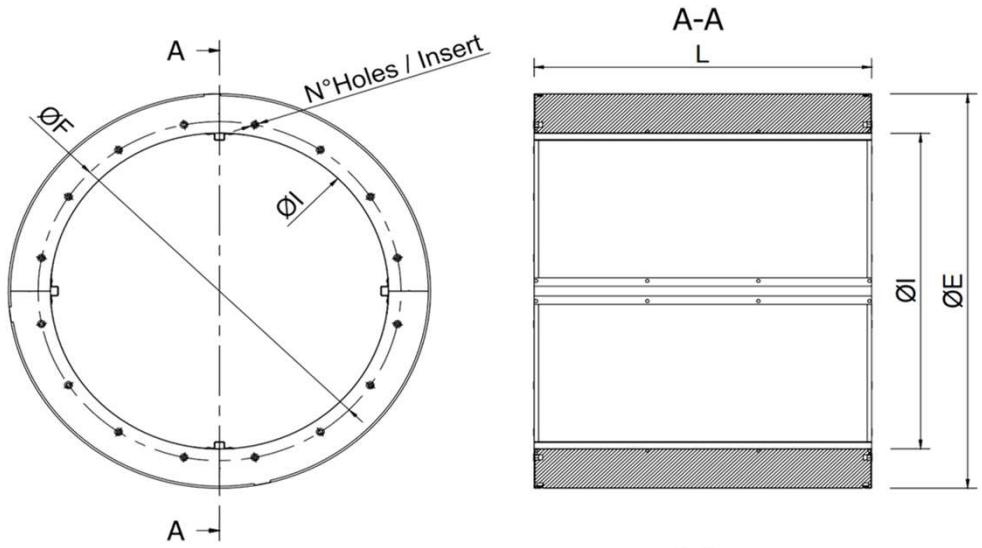


SC - SCO ZN

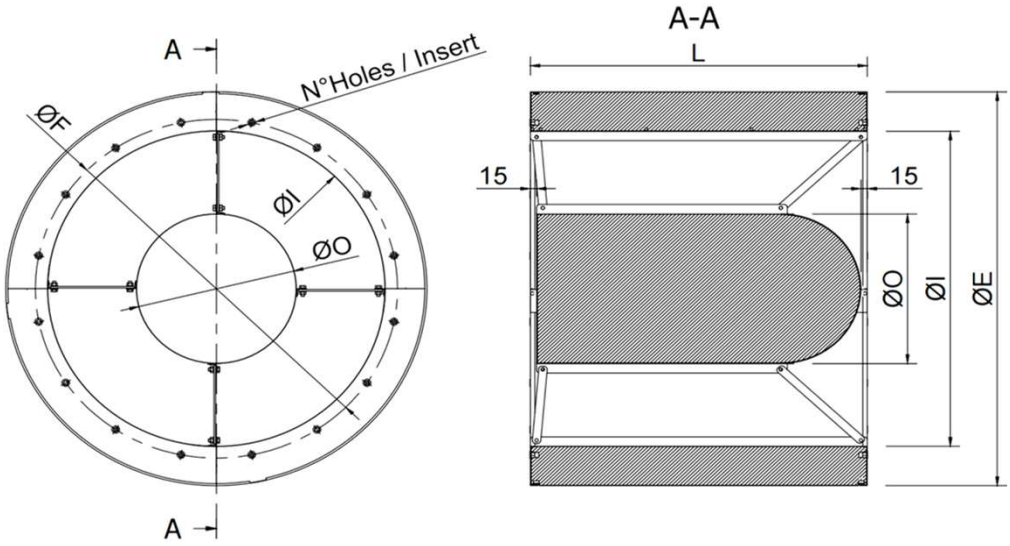
Circular light silencer, simple model (SC), or complete with central splitter pod model (SCO), in galvanized steel

Dimensional Drawing and Standard Size Table (size in mm)

SC



SCO



Dimensional Table and Weigths SC - SCO [mm and Kg]

Ø nom	ØI	ØE	ØF	N° Holes	Insert	ØO	1ØI			1,5ØI			2ØI			Eyebolts included
							L	Kg		L	Kg		L	Kg		
								SC	SCO		SC	SCO		SC	SCO	
250	250	390	280	4	M8	120	250	7	10	375	11	15	500	14	20	No
315	315	455	355	8	M8	140	315	10	13	472,5	15	20	630	20	26	No
355	355	495	395	8	M8	200	355	12	17	532,5	18	26	710	24	34	No
400	400	540	450	8	M10	200	400	14	19	600	21	29	800	28	38	No
450	450	610	500	8	M10	245	450	18	24	675	27	36	900	36	48	No
500	500	660	560	12	M10	245	500	21	28	750	32	42	1000	42	56	No
560	560	720	620	12	M10	295	560	28	38	840	42	57	1120	56	76	No
630	630	790	690	12	M10	295	630	36	47	945	54	71	1260	72	94	No
710	710	870	770	16	M10	380	710	43	58	1065	65	87	1420	86	116	No
800	800	1000	860	16	M10	380	800	59	75	1200	89	113	1600	118	150	No
900	900	1100	970	16	M12	380	900	71	88	1350	107	132	1800	142	176	No
1000	1000	1200	1070	16	M12	650	1000	87	122	1500	131	183	2000	174	244	Yes
1120	1120	1320	1190	20	M12	650	1120	105	142	1680	158	213	2240	210	284	Yes
1250	1250	1450	1320	20	M12	650	1250	126	166	1875	189	249	2500	252	332	Yes

Note : *approximate weights refer to the product under normal conditions and do not account for potential water accumulation or absorption.*

Pressure Drop Table SC model									
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]							
250	0,049	442	883	1325	1766	2208	2649	3091	3533
315	0,078	701	1402	2103	2804	3505	4206	4907	5608
355	0,099	890	1781	2671	3561	4452	5342	6233	7123
400	0,126	1130	2261	3391	4522	5652	6782	7913	9043
450	0,159	1431	2861	4292	5723	7153	8584	10015	11445
500	0,196	1766	3533	5299	7065	8831	10598	12364	14130
560	0,246	2216	4431	6647	8862	11078	13294	15509	17725
630	0,312	2804	5608	8412	11216	14020	16825	19629	22433
710	0,396	3561	7123	10684	14246	17807	21369	24930	28492
800	0,502	4522	9043	13565	18086	22608	27130	31651	36173
900	0,636	5723	11445	17168	22891	28613	34336	40059	45781
1000	0,785	7065	14130	21195	28260	35325	42390	49455	56520
1120	0,985	8862	17725	26587	35449	44312	53174	62036	70899
1250	1,227	11039	22078	33117	44156	55195	66234	77273	88313
PRESSURE DROP SC		Δp [Pa]							
		0	2	3,5	5,5	7	9	13	15

Pressure Drop Table SCO model									
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]							
250	0,038	340	680	1019	1359	1699	2039	2379	2719
315	0,063	563	1125	1688	2250	2813	3375	3938	4500
355	0,068	608	1216	1823	2431	3039	3647	4254	4862
400	0,094	848	1696	2543	3391	4239	5087	5935	6782
450	0,112	1007	2013	3020	4026	5033	6040	7046	8053
500	0,149	1342	2684	4027	5369	6711	8053	9395	10737
560	0,178	1601	3202	4802	6403	8004	9605	11205	12806
630	0,243	2189	4379	6568	8757	10946	13136	15325	17514
710	0,282	2541	5083	7624	10165	12706	15248	17789	20330
800	0,389	3501	7003	10504	14006	17507	21008	24510	28011
900	0,522	4702	9405	14107	18810	23512	28215	32917	37620
1000	0,453	4080	8160	12240	16320	20400	24480	28560	32640
1120	0,653	5877	11755	17632	23509	29387	35264	41142	47019
1250	0,895	8054	16108	24162	32216	40271	48325	56379	64433
PRESSURE DROP SCO		Δp [Pa]							
		2	5	10	20	30	40	60	80

SC - SCO ZN

Circular light silencer, simple model (SC), or complete with central splitter pod model (SCO), in galvanized steel

Attenuation Table SC - SCO (in accordance with ISO 7235)									
Ø [mm]	Model	L [mm]	Frequency [Hz]						
			125	250	500	1000	2000	4000	8000
			[dB]						
250	SC	250	1	4	6	11	13	9	6
		375	0	6	9	23	16	11	10
		500	1	8	14	24	21	13	12
	SCO	250	1	6	7	13	21	14	9
		375	2	6	10	27	29	18	14
		500	1	9	15	30	37	22	20
315	SC	315	1	2	8	14	9	8	7
		472,5	2	5	12	19	13	11	8
		630	6	6	16	26	17	13	9
	SCO	315	1	4	9	16	17	13	10
		472,5	4	5	13	23	26	18	12
		630	6	7	17	32	33	22	17
355	SC	355	0	3	9	14	10	8	6
		532,5	0	5	12	21	13	11	9
		710	2	6	15	25	16	12	10
	SCO	355	0	4	11	22	21	15	12
		532,5	1	7	15	33	32	22	17
		710	2	8	19	40	39	27	20
400	SC	400	0	4	10	13	8	8	5
		600	1	5	14	19	12	10	8
		800	2	7	18	24	15	12	9
	SCO	400	1	4	11	20	18	14	11
		600	2	6	15	31	27	19	14
		800	2	9	20	37	35	23	16
450	SC	450	1	4	12	12	9	6	6
		675	1	6	17	17	13	9	8
		900	1	7	21	21	15	10	8
	SCO	450	1	6	14	21	19	13	9
		675	2	7	19	31	28	18	12
		900	3	10	23	39	36	21	15
500	SC	500	0	4	13	11	9	6	5
		750	1	6	18	17	12	9	7
		1000	2	8	23	21	14	11	8
	SCO	500	2	5	13	20	16	11	8
		750	3	7	19	29	24	14	10
		1000	3	10	24	38	32	18	12
560	SC	560	0	4	14	11	8	5	4
		840	2	7	20	15	11	8	5
		1120	1	9	24	19	14	10	7
	SCO	560	1	6	15	21	17	11	8
		840	3	9	22	32	27	15	11
		1120	2	12	27	41	35	18	12

SC - SCO ZN

Circular light silencer, simple model (SC), or complete with central splitter pod model (SCO), in galvanized steel

Attenuation Table SC - SCO (in accordance with ISO 7235)									
Ø [mm]	Model	L [mm]	Frequency [Hz]						
			125	250	500	1000	2000	4000	8000
			[dB]						
630	SC	630	1	5	14	10	9	5	5
		945	2	7	20	14	12	8	6
		1260	2	9	25	17	14	10	7
	SCO	630	1	6	15	19	16	10	8
		945	2	9	22	29	23	14	10
		1260	3	11	27	37	29	15	12
710	SC	710	1	5	12	9	7	5	5
		1065	2	7	18	11	9	6	7
		1420	4	9	24	14	11	8	8
	SCO	710	2	7	15	20	18	12	10
		1065	3	11	22	31	25	13	11
		1420	5	14	29	41	32	18	15
800	SC	800	3	7	9	8	6	5	4
		1200	5	10	13	12	9	7	7
		1600	6	13	22	14	10	9	7
	SCO	800	3	9	12	17	15	9	8
		1200	6	13	18	26	22	12	11
		1600	6	16	29	35	26	15	12
900	SC	900	3	7	13	8	6	5	4
		1350	5	11	16	11	7	7	5
		1800	6	14	23	13	9	7	6
	SCO	900	4	8	15	16	11	8	7
		1350	5	12	20	24	16	10	9
		1800	7	17	30	34	20	12	11
1000	SC	1000	3	8	12	8	4	4	4
		1500	5	12	17	10	6	6	5
		2000	6	16	23	12	7	7	6
	SCO	1000	8	14	20	24	21	14	10
		1500	10	22	30	37	29	16	12
		2000	13	28	39	47	38	19	13
1120	SC	1120	3	8	13	7	5	4	3
		1680	5	12	18	8	6	5	4
		2240	6	15	23	10	7	6	6
	SCO	1120	6	13	20	21	14	8	7
		1680	10	19	29	33	20	11	10
		2240	14	26	36	42	24	13	11
1250	SC	1250	3	9	13	7	4	4	3
		1875	6	12	17	8	5	5	4
		2500	8	17	22	10	6	6	5
	SCO	1250	7	12	18	19	10	6	6
		1875	10	18	26	29	14	9	7
		2500	13	25	35	37	17	11	9

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.



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