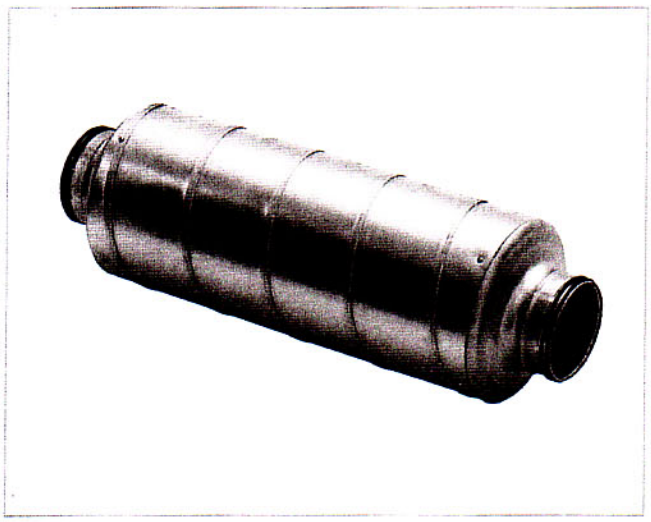
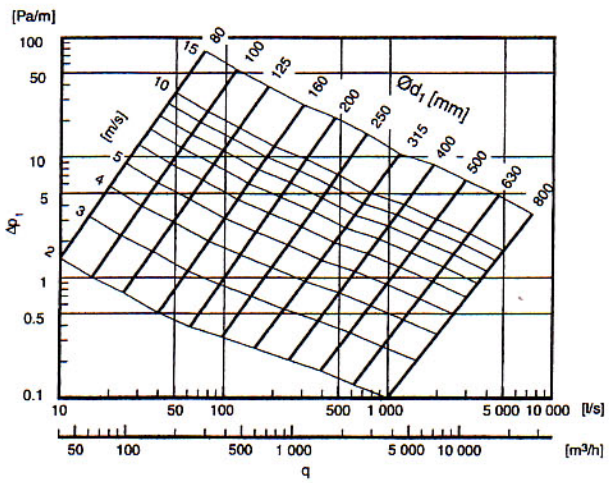
Circular straight silencer SLU



Description

Insulation thickness 50 mm.

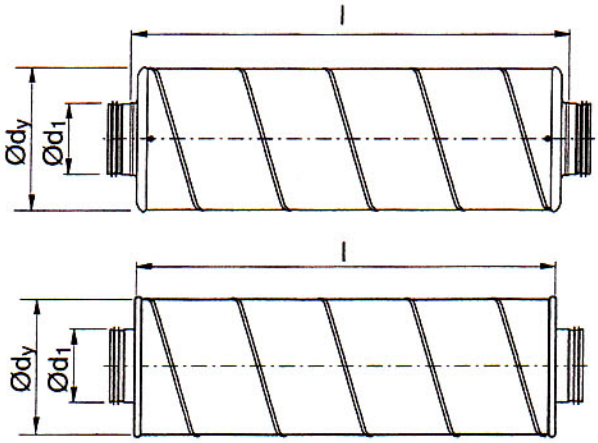
Technical data



Ordering example

SLU	125	600	50
Product			
Dimension $Ød_1$			
Length l			
Insulation thickness			

Dimensions



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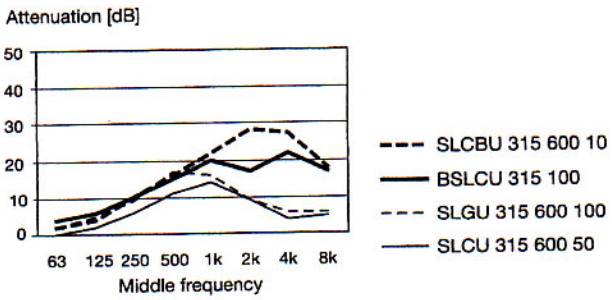
$Ød_1$ nom	Length nom	Attenuation [dB] centre frequency [Hz] 63	125	250	500	1k	2k	4k	8k	$Ød_y$ mm	l mm	m kg
80	300	1	5	8	15	25	25	21	15	180	300	2,00
80	600	2	8	14	28	49	50	47	24	180	600	3,00
80	900	3	10	21	40	50	50	50	34	180	900	5,00
80	1200	4	13	27	50	50	50	50	43	180	1200	7,00
100	300	1	5	7	15	25	25	21	13	200	360	2,00
100	600	1	7	12	25	43	48	35	20	200	660	3,00
100	900	2	10	17	34	50	50	49	28	200	960	5,00
100	1200	3	12	22	44	50	50	50	35	200	1260	7,00
125	300	0	4	5	13	23	20	16	11	224	365	3,00
125	600	1	5	10	22	39	37	26	16	224	665	4,00
125	900	1	7	14	30	50	50	37	21	224	965	7,00
125	1200	2	9	18	39	50	50	47	26	224	1265	9,00
160	300	0	3	5	11	22	16	11	7	260	375	3,00
160	600	1	4	8	19	37	28	17	11	260	675	6,00
160	900	1	5	12	27	50	39	24	14	260	975	8,00
160	1200	2	6	15	35	50	50	30	17	260	1275	10,0
200	300	0	2	4	9	19	11	7	5	315	300	4,00
200	600	1	3	8	15	28	19	12	8	315	600	7,00
200	900	2	4	11	21	37	28	16	10	315	900	10,0
200	1200	2	5	14	27	46	36	21	13	315	1200	12,0
250	600	1	2	6	14	26	14	8	7	355	600	9,00
250	900	1	3	9	19	38	19	11	9	355	900	12,0
250	1200	2	4	11	24	50	24	13	11	355	1200	15,0
315	600	2	5	9	14	12	6	4	5	500	600	12,0
315	900	3	6	13	20	19	10	6	7	500	900	18,0
315	1200	4	8	16	27	25	15	9	10	500	1200	24,0
400 *	600	4	5	8	10	7	4	4	6	600	600	16,0
400 *	900	4	5	10	17	13	6	6	8	600	900	22,0
400 *	1200	5	6	13	24	18	8	7	10	600	1200	32,0
500 *	900	4	4	10	14	8	4	6	6	710	900	26,0
500 *	1200	3	5	11	21	12	6	7	9	710	1200	39,0
630 *	900	2	3	7	12	5	4	4	5	800	900	44,0
630 *	1200	2	4	8	17	7	4	5	7	800	1200	56,0
800 *	1200	2	3	8	11	5	4	5	6	1000	1200	69,0
800 *	1500	2	3	10	16	6	5	6	7	1000	1500	86,0

* Supplied with two loose couplings

General

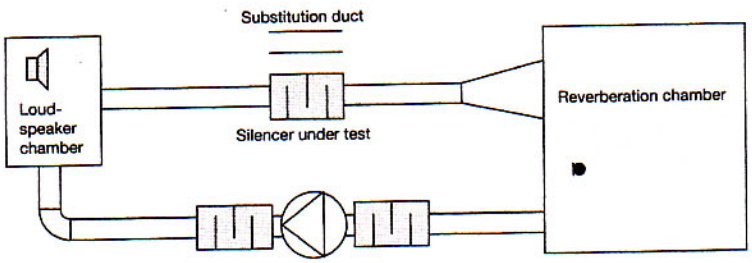
The silencers are of the absorption silencer type. The damping ability of absorption silencers is affected by the geometric design of the silencer and the type of damping material chosen. Silencer comprises a total of 17 such variants, with different properties. The graph below summarises the attenuation of some types of silencer.



More information about damping in duct systems, and dimensioning and calculation examples can be found on page 28.

Method of measurement

The silencers are tested in accordance with ISO 7235 "Acoustics - Measurement procedures for ducted silencers - Insertion loss, flow noise and total pressure loss".



Design

The straight types consist of an outer and inner sheet casing. The space between them is filled with mineral wool of varying type and density. The rectangular ones consist in principle of an outer sheet casing and baffles. The outer sheet casing of the circular curved silencers are built as a segmented bend, BFU.

Baffles, one or more, for better noise attenuation, exist in SLCBU, SLBGU, LRBCB and in the rectangular silencers. The tear of fibre is prevented since all exposed surfaces are lined. The connections of the circular types are supplied with a Safe-gasket. The rectangular have guide joins.

Cleaning of duct systems

Silencers with baffles have parts which block the duct system to a greater or lesser extent, and thus obstruct or prevent cleaning of the duct system. Please refer to page 133.

We reserve the right to make changes without prior notice