

Rectangular silencers

SLRS

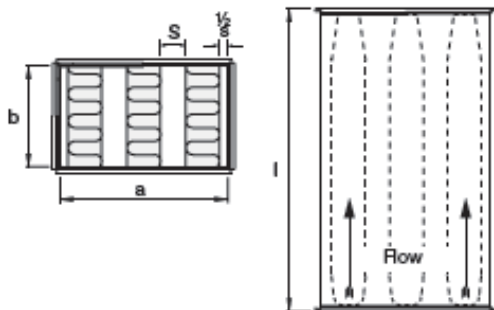


Description

The SLRA silencer is manufactured with a frame of galvanized sheet and Lindtec™ backed sound absorption material. The Lindtec™ surface is easy to clean and prevents removal of fibers, while allowing increase exposure of sound attenuation media.

Due to the aerodynamic design, the SLRS has a low pressure loss and a low generation of flow noise. The baffle is available in a width of 8 in. The SLRS is also available in other lengths and with other baffle spacing configurations to suit every need.

Dimensions



Ordering example

SLRS 8 4 48 36 40 LS
 Product _____
 Baffle width (in) _____
 Baffle distance (in) _____
 a (in) _____
 b (in) _____
 l (in) _____
 Connection type, e.g. LS _____

Dimension

Baffle Spacing $S = 2.5$ in

Length (inch)	Attenuation [dB] for center frequency [Hz]								Pressure value ξ
	63	125	250	500	1k	2k	4k	8k	
40	5	11	23	34	48	43	28	20	10.2
60	7	16	34	50	50	50	39	27	12.9
80	9	22	45	50	50	50	49	33	15.6
100	11	27	50	50	50	50	50	38	18.2

Baffle Spacing $S = 3$ in

Length (inch)	Attenuation [dB] for center frequency [Hz]								Pressure value ξ
	63	125	250	500	1k	2k	4k	8k	
40	4	9	20	30	42	36	23	17	5.5
60	5	14	29	44	50	50	32	22	6.9
80	7	18	39	50	50	50	40	27	8.2
100	8	22	48	50	50	50	48	31	9.5

Baffle Spacing $S = 4$ in

Length (inch)	Attenuation [dB] for center frequency [Hz]								Pressure value ξ
	63	125	250	500	1k	2k	4k	8k	
40	3	8	18	27	37	29	19	14	3.2
60	5	12	26	40	50	44	27	18	4.0
80	6	16	34	50	50	50	33	22	4.8
100	11	27	50	50	50	50	50	38	18.2

Baffle Spacing $S = 5$ in

Length (inch)	Attenuation [dB] for center frequency [Hz]								Pressure value ξ
	63	125	250	500	1k	2k	4k	8k	
40	3	7	16	25	32	24	16	11	2.0
60	4	11	23	36	50	36	22	15	2.5
80	5	14	31	48	50	47	28	18	3.0
100	6	17	38	50	50	50	33	21	3.5

Baffle Spacing $S = 5.5$ in

Length (inch)	Attenuation [dB] for center frequency [Hz]								Pressure value ξ
	63	125	250	500	1k	2k	4k	8k	
40	3	7	15	23	28	20	13	9	1.3
60	4	10	22	34	44	30	18	12	1.7
80	4	13	28	45	50	39	23	15	2.0
100	5	16	35	50	50	48	27	18	2.4

NB. Maximum attenuation specified is 50 dB. The pressure loss Δp in Pa can be calculated from the pressure value ξ : $\Delta p = 0.6 \times v^2 \times \xi$ where (v) is the velocity on the face area of the silencer.

The lengths shown above are only examples, other lengths between are also available. Minimum length is 20 in. Maximum length is 98 in. For lengths over 98 in, the silencer will be divided into two or more silencers.