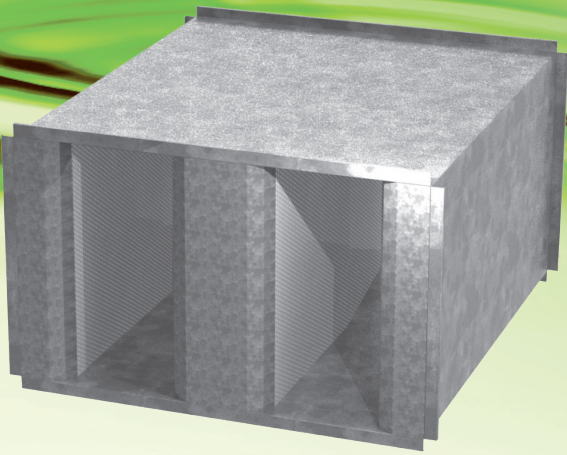


SLR-MP

Rectangular Silencers



ASLI Rectangular Silencers (SLR-MP) is designed to balance between requirement of insertion loss and pressure drop. The baffle width is tuned to target at middle frequency to high frequency which human hearing is most sensitive at. The shape of baffle is optimized in order to achieve the best insertion loss of noise with minimum pressure drop. The tail of baffle is specially designed to regain static loss and reduce turbulent air flow pattern, as well as regenerative noise.

Materials

Outer casing : 1.0mm - 1.2mm thickness galvanized steel
Baffle : 0.5mm - 0.7mm thickness perforated galvanized steel
Infill : Acoustic composite

Surface Finish

Mill galvanized.

Connection Joint

TDC joint as standard.
 Angle bar joint as optional.

Features

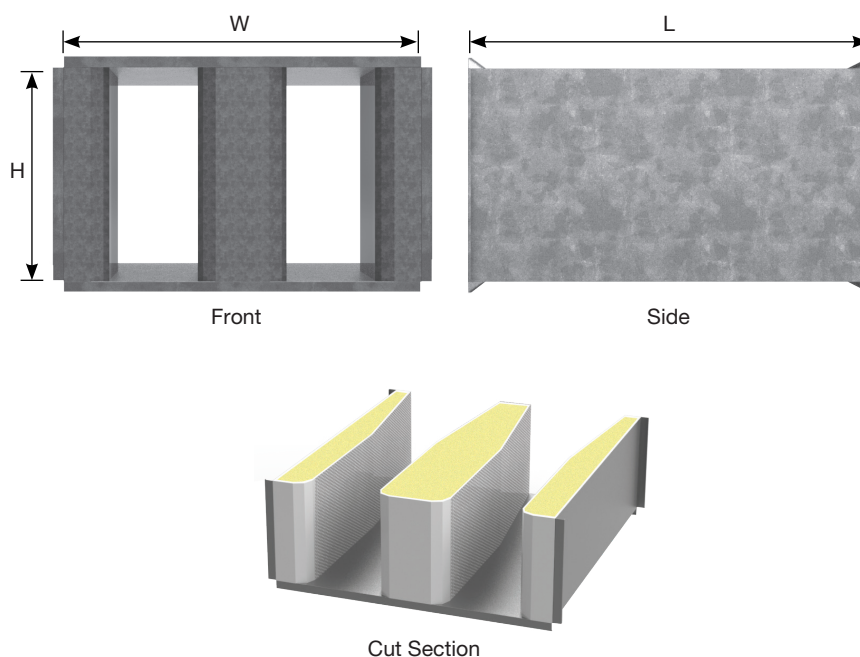
- Specially tuned to balance between requirement of insertion loss and pressure drop.
- Special baffle design to minimize pressure drop.
- TDC joint to ensure installation friendly.
- Lined with polyester film for clean room application. (Optional)

Nominal Length *Unit : mm*

*600 / 900 / **1200 / 1500 / 1800
 2100 / 2400 / 2700 / 3000

* Actual length for 600 is 515mm.
 ** Actual length for 1200 is 1135mm.

SLR-MP Construction Illustration



SLR-MP Rectangular Silencers

SLR-MP Table 1: Insertion Loss *Unit : dB*

Model	Length (mm)	Minimum width (mm)	Frequency (Hz)							
			63	125	250	500	1000	2000	4000	8000
SLR-MP-33	600	375	4	8	13	25	31	23	21	14
	900	375	5	10	17	30	37	28	25	18
	1200	375	6	12	22	36	42	35	29	21
	1500	375	7	15	27	42	47	42	32	24
	1800	375	9	17	32	48	51	48	36	26
	2100	375	10	19	37	53	54	54	38	27
	2400	375	11	21	42	57	57	61	42	30
	2700	375	12	24	45	59	60	61	45	31
	3000	375	14	27	49	60	62	62	49	35
SLR-MP-39	600	410	4	6	9	20	25	19	12	11
	900	410	5	8	14	25	29	23	17	14
	1200	410	6	11	20	30	35	27	20	16
	1500	410	7	14	25	35	40	31	23	18
	1800	410	8	17	31	40	46	35	25	21
	2100	410	9	19	36	46	51	39	29	23
	2400	410	10	21	41	49	57	43	33	25
	2700	410	12	22	44	53	59	49	35	27
	3000	410	13	24	47	57	61	52	37	29
SLR-MP-45	600	450	4	5	9	17	22	14	10	9
	900	450	5	7	13	22	26	18	14	12
	1200	450	6	10	17	26	31	21	15	14
	1500	450	7	12	21	31	35	24	19	15
	1800	450	7	14	25	35	40	28	21	16
	2100	450	8	15	29	39	44	32	24	18
	2400	450	9	17	33	44	48	35	27	20
	2700	450	10	19	35	47	51	38	28	21
	3000	450	10	21	39	49	54	41	30	22
SLR-MP-50	600	500	2	5	6	13	18	10	7	8
	900	500	3	7	11	18	22	14	11	9
	1200	500	3	9	14	22	25	15	12	10
	1500	500	4	10	17	26	29	18	15	11
	1800	500	6	11	21	29	32	22	17	12
	2100	500	7	12	25	34	37	25	19	14
	2400	500	8	14	27	38	41	27	21	16
	2700	500	9	16	30	40	45	29	22	17
	3000	500	10	18	32	43	48	31	23	18

SLR-MP Rectangular Silencers

SLR-MP Table 2: Air Generated Sound Power Level *Unit : dB*

Model	Face velocity (m/s)	Frequency (Hz)							
		63	125	250	500	1000	2000	4000	8000
SLR-MP-33	5	74	64	60	58	57	54	50	44
	10	90	80	76	74	73	70	66	60
	15	99	89	85	83	82	79	75	69
SLR-MP-39	5	67	57	53	51	50	47	43	37
	10	83	73	69	67	66	63	59	53
	15	92	82	78	76	75	72	68	62
SLR-MP-45	5	60	50	46	44	43	40	36	30
	10	76	66	62	60	59	56	52	46
	15	85	75	71	69	68	65	61	55
SLR-MP-50	5	56	46	42	40	39	36	32	26
	10	72	62	58	56	55	52	48	42
	15	81	71	67	65	64	61	57	51

• The above performance data is generated from 1.0m² face area silencer. Please use the correct factor at table 3 for other face area silencers.

SLR-MP Table 3: Correction Factor for Air Generated Sound Power Level *Unit : dB*

Face Area (m ²)	0.125	0.25	0.5	1	2	4	8
Correction Factor	-9	-6	-3	0	+3	+6	+9

SLR-MP Table 4: Pressure Drop *Unit : Pa*

Model	Length, L (mm)	Face velocity (m/s)						
		2	4	6	8	10	12	14
SLR-MP-33	600 ≤ L ≤ 1800	18	70	158	280	438	631	858
	2100 ≤ L ≤ 3000	18	74	166	294	460	662	902
SLR-MP-39	600 ≤ L ≤ 1800	8	32	73	130	203	292	398
	2100 ≤ L ≤ 3000	8	34	76	135	211	304	414
SLR-MP-45	600 ≤ L ≤ 1800	5	19	43	76	119	171	233
	2100 ≤ L ≤ 3000	5	20	45	79	124	179	243
SLR-MP-50	600 ≤ L ≤ 1800	3	13	29	51	80	115	157
	2100 ≤ L ≤ 3000	3	13	30	53	83	120	163

SLR-MP Order Code

Model	Width, W (mm)	Height, H (mm)	Length, L (mm)
SLR-MP-50	600	600	900

Example: SLR-MP-50 W600XH600XL900mm