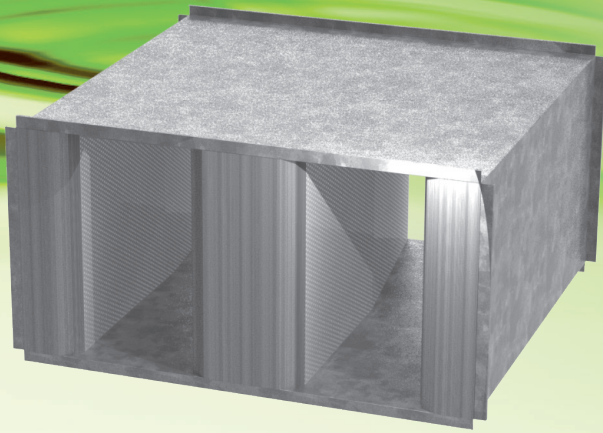


SLR-HP

Rectangular Silencers



ASLI Rectangular Silencers (SLR-HP) is designed to cater for the noise generated by HVAC equipment. The baffle width is tuned to target at difficult low frequency noise. 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 according to noise generated by HVAC equipment.
- Special baffle design to minimize pressure drop.
- TDC joint to ensure installation friendly.
- Lined with polyester film for clean room application. (Optional)

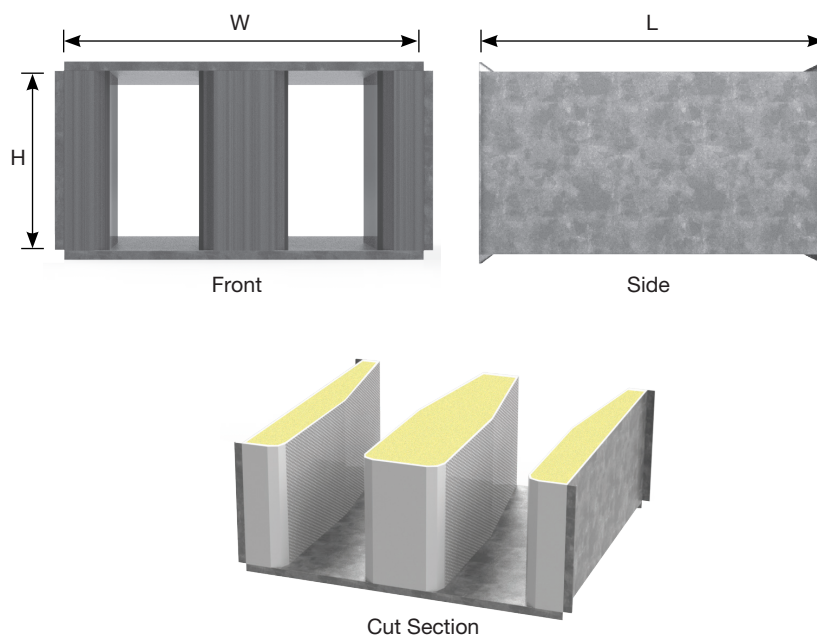
Nominal Length *Unit : mm*

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

* Actual length for 600 is 515mm.

** Actual length for 1200 is 1135mm.

SLR-HP Construction Illustration



SLR-HP Rectangular Silencers

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

Model	Length (mm)	Minimum width (mm)	Frequency (Hz)							
			63	125	250	500	1000	2000	4000	8000
SLR-HP-33	600	450	7	11	12	17	24	18	15	13
	900	450	8	13	17	26	29	23	18	16
	1200	450	9	15	22	34	34	28	22	18
	1500	450	10	17	27	38	39	33	26	21
	1800	450	12	20	32	41	45	38	30	23
	2100	450	13	22	37	43	50	43	34	25
	2400	450	14	24	42	48	55	48	38	28
	2700	450	16	26	47	53	58	53	42	30
	3000	450	18	29	52	59	62	58	46	33
SLR-HP-39	600	500	5	9	10	16	21	16	14	12
	900	500	7	11	14	25	30	19	17	16
	1200	500	8	13	19	30	34	23	19	17
	1500	500	9	15	23	35	38	27	21	18
	1800	500	10	17	28	42	42	31	23	19
	2100	500	11	19	32	43	46	35	25	20
	2400	500	12	21	37	50	50	39	28	22
	2700	500	13	23	42	51	54	43	30	23
	3000	500	14	25	47	55	58	47	32	24
SLR-HP-45	600	550	3	7	9	15	18	14	12	11
	900	550	3	9	13	20	22	16	16	11
	1200	550	4	11	17	25	26	19	17	12
	1500	550	6	13	21	30	31	22	18	14
	1800	550	8	15	25	35	36	25	19	16
	2100	550	9	17	29	40	40	28	20	17
	2400	550	11	19	33	45	45	31	22	19
	2700	550	12	21	37	47	49	34	23	20
	3000	550	14	23	41	50	54	37	24	22
SLR-HP-50	600	600	2	5	8	13	15	12	11	10
	900	600	3	7	12	17	16	14	13	12
	1200	600	4	11	16	22	20	16	14	13
	1500	600	5	12	19	26	26	18	16	14
	1800	600	6	13	22	30	32	21	17	15
	2100	600	7	15	25	34	37	24	18	15
	2400	600	9	16	29	39	43	27	19	16
	2700	600	10	17	32	41	46	28	19	17
	3000	600	12	19	36	43	49	30	20	18

SLR-HP Rectangular Silencers

SLR-HP 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-HP-33	5	72	59	56	54	53	51	49	42
	10	88	75	72	70	69	67	65	58
	15	97	84	81	79	78	76	74	67
SLR-HP-39	5	66	53	50	48	47	45	43	36
	10	82	69	66	64	63	61	59	52
	15	91	78	75	73	72	70	68	61
SLR-HP-45	5	61	48	45	43	42	40	38	31
	10	77	64	61	59	58	56	54	47
	15	86	73	70	68	67	65	63	56
SLR-HP-50	5	57	44	41	39	38	36	34	27
	10	73	60	57	55	54	52	50	43
	15	82	69	66	64	63	61	59	52

• 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-HP 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-HP Table 4: Pressure Drop *Unit : Pa*

Model	Length, L (mm)	Face velocity (m/s)						
		2	4	6	8	10	12	14
SLR-HP-33	600 ≤ L ≤ 1800	12	48	108	193	301	433	590
	2100 ≤ L ≤ 3000	12	50	112	200	312	449	612
SLR-HP-39	600 ≤ L ≤ 1800	7	28	63	113	176	253	345
	2100 ≤ L ≤ 3000	7	29	66	116	182	262	357
SLR-HP-45	600 ≤ L ≤ 1800	5	19	42	76	118	170	231
	2100 ≤ L ≤ 3000	5	19	44	77	121	174	237
SLR-HP-50	600 ≤ L ≤ 1800	3	14	31	54	85	122	167
	2100 ≤ L ≤ 3000	4	14	32	56	88	127	172

SLR-HP Order Code

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

Example: SLR-HP-50 W600XH600XL900mm