

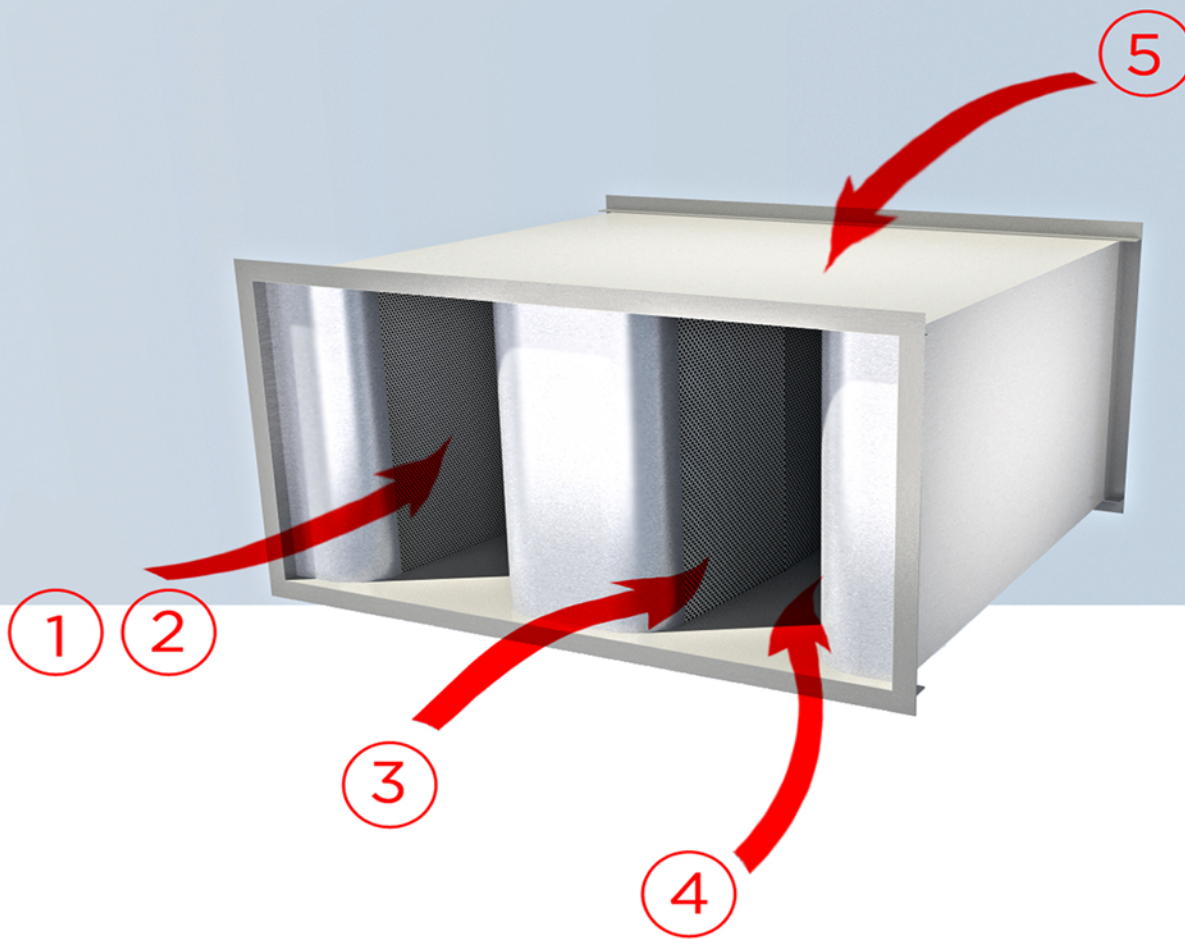


## Tunnel Ventilation Sound Attenuators

In today's large handling systems, the air moving devices such as fans, blowers, cooling towers, dust extraction systems and the like, usually produce undesirable high noise levels that may be transmitted through both the supply and return air systems serving the conditioned areas of the building. To control the passage of noise along such air paths, OLSON Acoustics has developed a line of Sound Attenuators which can provide proper acoustical environment in the occupied areas of the buildings.

### CONSTRUCTION

OLSON Acoustics's Sound Attenuators come with aerodynamic splitters that have bell-mouth entrances and tapered ends. This aerodynamic design ensures maximum sound attenuation with less airflow resistance and lower generated noise. The splitters are constructed with perforated metal to prevent erosion and enhances low frequencies attenuation. OLSON Acoustics's Sound Attenuators are constructed using high quality galvanized sheet metal casing with acoustic infill materials meeting the requirements of NFPA 90A. Other materials are also available upon customers' request.



## FEATURES

1. Acoustic infill material meeting NFPA 90A requirements
2. Perforated galvanized steel interior linings to prevent erosion and enhances low frequencies attenuation
3. Aerodynamically designed splitters with rounded nose and tapered ends
4. Solid nose and bellmouth entrance ensure minimum pressure loss and generated noise
5. Galvanized sheet metal casing of highest quality. Other materials are available upon request

## Weight of HABT40 Sound Attenuators

Width (mm)	Height (mm)	Length (mm)	Unit Wt (kg)
600	600	600	30
		900	38
		1200	47
1200	600	600	57
		900	74
		1200	92
1200	1200	600	91
		1200	146
		1800	200
		2400	260
1800	600	600	90
		1200	143
		1800	197

Width (mm)	Height (mm)	Length (mm)	Unit Wt (kg)
1800	1200	600	140
		900	221
		1200	302
		2400	391
1800	1800	600	190
		1200	299
		1800	408
		2400	525
2400	600	600	115
		1200	184
		1800	253
		2400	332

Width (mm)	Height (mm)	Length (mm)	Unit Wt (kg)
2400	1200	600	178
		1200	282
		1800	385
		2400	499
2400	1800	600	242
		1200	380
		1800	517
		2400	665
2400	2400	600	324
		1200	497
		1800	669
		2400	852



## HABT40 Insertion Loss

MODEL	LENGTH (mm)	VELOCITY (m/s)	PRES. LOSS (Pa)	STATIC & DYNAMIC INSERTION LOSS IN DB						
				125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz
HABT40-120	1200	0	-	10	14	27	28	22	16	13
		5	43	9	13	26	27	22	16	13
		7.5	88	9	12	25	26	22	16	14
HABT40-150	1500	0	-	12	18	31	32	27	18	14
		5	45	11	17	30	32	27	18	15
		7.5	93	11	16	29	30	26	18	16
HABT40-180	1800	0	-	14	23	35	36	32	20	15
		5	47	13	21	34	36	32	20	16
		7.5	98	13	20	33	34	30	20	17
HABT40-210	2100	0	-	16	28	39	40	37	22	16
		5	49	15	26	38	40	37	22	17
		7.5	103	15	24	37	38	34	22	18
HABT40-240	2400	0	-	18	33	43	44	41	24	17
		5	51	17	31	42	44	41	24	18
		7.5	109	17	29	40	41	37	24	19
HABT40-270	2700	0	-	21	38	47	48	45	25	18
		5	53	19	36	46	48	45	25	19
		7.5	114	19	34	43	44	40	26	20
HABT40-300	3000	0	-	24	42	50	52	49	26	19
		5	55	21	40	49	52	49	27	20
		7.5	119	21	39	46	47	43	28	21

## Generated Sound Power Level - dB re 10<sup>-12</sup> Watts

MODEL	LENGTH (mm)	FACE VELOCITY (m/s)	CENTER OCTAVE BAND						
			125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz
HABT40-120	1200	5	35	29	29	34	30	16	7
		7.5	47	42	42	43	48	46	36
HABT40-150	1500	5	35	29	29	34	30	16	7
		7.5	47	42	42	43	48	46	36
HABT40-180	1800	5	36	29	29	34	30	16	7
		7.5	47	42	42	43	48	46	36
HABT40-210	2100	5	36	29	29	34	30	16	7
		7.5	47	42	42	43	48	46	36
HABT40-240	2400	5	37	30	30	34	31	17	8
		7.5	47	43	43	44	49	47	36
HABT40-270	2700	5	37	30	30	34	31	17	8
		7.5	47	43	43	44	49	47	36
HABT40-300	3000	5	38	30	30	34	31	17	8
		7.5	47	43	43	44	49	47	36



3-B Joo Koon Circle, Singapore 629034  
Tel: +65 6275 2903 | Fax: +65 6862 0213  
Email: [info@olsonacoustics.com](mailto:info@olsonacoustics.com) | Web: [www.olsonacoustics.com](http://www.olsonacoustics.com)