

Insertion Loss (IL)

LENGTH (inches)	FACE VELOCITY (feet per minute)	OCTAVE BAND - Hz/DYNAMIC INSERTION LOSS (dB)							
		63	125	250	500	1000	2000	4000	8000
36	-1250	5	10	14	15	18	14	13	11
36	+1250	4	8	12	14	17	15	13	11
60	-1250	7	13	22	24	27	20	16	13
60	+1250	6	11	19	22	26	20	16	13
84	-1250	10	17	29	33	36	26	18	15
84	+1250	8	14	26	30	36	25	19	15
108	-1250	12	21	37	41	45	32	21	17
108	+1250	10	17	33	38	46	30	23	18

+: "forward flow" where noise & airflow move in same direction (e.g. supply side)

-: "reverse flow" where noise & airflow move in opposite directions (e.g. return side)

See pages 4.1-4.25 for selection information. DIL above 50dB may be limited due to noise flanking around the silencer or along the duct walls. If more than 50dB DIL is required, contact your local Vibro-Acoustics Representative or call 1-800-565-8401.

Pressure Drop (PD)

LENGTH (inches)	FACE VELOCITY (feet per minute) / Pressure Drop (In.w.g.)						
	500	750	1000	1250	1500	1750	2000
36	0.03	0.07	0.13	0.21	0.30	0.40	0.53
60	0.04	0.10	0.18	0.27	0.40	0.54	0.70
84	0.05	0.12	0.22	0.34	0.49	0.67	0.88
108	0.07	0.15	0.26	0.41	0.59	0.81	1.06

Acceptable (0-0.35 in.w.g.)

Caution (>0.35 in.w.g.) Pressure Drop may be too high for certain applications

Pressure drops are reported in accordance with ASTM E477 methods and are based upon IDEAL flow conditions (5 diameters of straight duct on silencer inlet and 10 on outlet). Less than ideal conditions will result in an increase in pressure drop due to System Effects. See Silencer System Effects Data on page 4.19.

Generated Noise (GN) @ 5 sq. ft. face area

LENGTH (inches)	FACE VELOCITY (feet per minute)	OCTAVE BAND - Hz/GENERATED NOISE (dB re 10 ⁻¹² watts)							
		63	125	250	500	1000	2000	4000	8000
ALL	-1250	53	50	49	50	52	50	40	28
ALL	-750	50	43	42	41	41	34	22	26
ALL	+750	51	39	35	33	37	33	23	26
ALL	+1250	56	51	45	43	45	47	40	29

GN correction chart at right must be used to correct GN to other face areas.

Face Area (sq. ft.)	2.5	5	10	20	40	80
dB	-3	0	+3	+6	+9	+12

Questions? 1-800-565-8401

We reserve the right to improve our designs and data at any time without notice

CROSS-SECTION SIZES*

"A" dimension (silencer width)

(inches):

14.5-15.5
29-31
58-62
87-93
116-124
145-155
174-186
203-217
232-248

"B" dimension (silencer height):

ANY SIZE

* To ensure a silencer selection that matches the ductwork dimensions, see page 4.25 or 5.3.