



## Insertion Loss (IL)

+ : "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)

A (in.)	Centerbody Diameter* (in.)	D (in.)	Fan Inlet/Outlet Velocity (ft. per min.)	OCTAVE BAND - Hz/D.I.L. (dB)							
				63	125	250	500	1000	2000	4000	8000
21	0	21	- 2000	1	3	8	13	9	7	5	5
			0	1	3	8	12	9	7	5	5
			+ 2000	1	3	7	12	8	7	5	5
21	0	42	- 2000	1	6	10	21	16	11	9	8
			0	1	6	10	20	16	10	9	8
			+ 2000	1	6	9	20	16	11	9	8
21	6	21	- 2000	1	3	10	15	14	11	8	7
			0	1	3	9	14	13	11	8	7
			+ 2000	1	3	8	14	13	11	8	7
21	6	42	- 2000	1	8	12	21	23	17	14	13
			0	1	8	11	20	22	17	14	13
			+ 2000	1	8	11	20	22	17	14	13
21	8	21	- 2000	1	4	10	16	15	15	10	8
			0	1	4	10	15	14	15	10	8
			+ 2000	1	4	9	15	14	15	10	8
21	8	42	- 2000	1	9	13	22	28	22	15	14
			0	1	9	12	21	27	21	15	14
			+ 2000	1	9	12	21	27	21	15	14
21	12	21	- 2000	1	4	12	18	21	19	12	10
			0	1	4	10	17	20	19	12	10
			+ 2000	1	4	10	17	20	19	12	10
21	12	42	- 2000	1	10	14	24	37	34	18	16
			0	1	10	13	23	36	33	18	16
			+ 2000	1	10	13	23	35	33	18	16

\*Note: The centerbody diameter should be matched to the fan hub diameter for an inlet silencer or the fan motor diameter for a discharge silencer.

A (in.)	B (in.)	C (in.)	Centerbody Diameter. (in.)	D (in.)	Weight	Pressure Drop based on Fan Inlet/Outlet Velocity = 2000 FPM*			
						Silencer On:			
						Fan Inlet		Fan Outlet	
Ducted		Unducted		Ducted		Unducted			
21	26	32	0	21	115	0.03	0.05	0.11	0.21
21	26	32	0	42	185	0.04	0.06	0.09	0.19
21	26	32	6	21	150	0.04	0.06	0.10	0.21
21	26	32	6	42	225	0.04	0.07	0.08	0.19
21	26	32	8	21	155	0.04	0.06	0.10	0.22
21	26	32	8	42	230	0.04	0.07	0.08	0.20
21	26	32	12	21	170	0.05	0.08	0.12	0.27
21	26	32	12	42	250	0.06	0.10	0.11	0.26

\*Note: For Pressure Drops at other velocities:

$$\text{Actual PD} = \left( \frac{\text{Actual velocity}}{2000 \text{ FPM}} \right)^2 \times \text{PD from chart}$$