



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
15	0	15	- 2000	1	2	8	13	11	7	5	4
			0	1	2	8	12	10	7	5	5
			+ 2000	1	2	8	11	10	7	5	4
15	0	30	- 2000	1	5	10	20	17	11	9	8
			0	1	5	10	20	17	10	9	8
			+ 2000	1	5	9	20	17	11	9	8
15	6	15	- 2000	1	2	8	13	15	13	10	8
			0	1	2	8	12	14	13	10	8
			+ 2000	1	2	8	12	14	13	10	9
15	6	30	- 2000	1	7	11	21	28	22	15	12
			0	1	6	10	20	27	21	15	12
			+ 2000	1	5	10	20	26	21	15	13
15	10	15	- 2000	1	3	10	16	21	21	15	13
			0	1	3	9	15	20	20	15	13
			+ 2000	1	3	9	14	19	20	15	13
15	10	30	- 2000	1	8	14	25	41	38	25	17
			0	1	7	13	24	39	37	25	18
			+ 2000	1	6	12	23	38	36	26	18

*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.

Pressure Drop (PD)

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
15	20	25	0	15	65	0.03	0.04	0.03	0.13
15	20	25	0	30	100	0.04	0.06	0.02	0.12
15	20	25	6	15	90	0.03	0.04	0.06	0.19
15	20	25	6	30	130	0.03	0.05	0.05	0.18
15	20	25	10	15	100	0.03	0.04	0.12	0.30
15	20	25	10	30	140	0.04	0.07	0.09	0.27

*Note: For Pressure Drops at other velocities:

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