



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
19	0	19	- 2000	1	2	8	13	10	7	5	5
			0	1	2	8	12	9	7	5	5
			+ 2000	1	2	7	11	9	7	5	5
19	0	38	- 2000	1	5	10	20	18	11	9	7
			0	1	5	10	20	17	10	9	7
			+ 2000	1	5	9	20	17	10	9	7
19	6	19	- 2000	1	2	8	14	15	14	10	8
			0	1	2	8	13	14	13	10	8
			+ 2000	1	2	7	13	13	13	10	8
19	6	38	- 2000	1	8	11	22	28	21	14	10
			0	1	7	10	21	26	20	14	10
			+ 2000	1	7	9	21	26	20	14	10
19	10	19	- 2000	1	3	10	16	19	19	15	13
			0	1	3	9	15	18	18	15	13
			+ 2000	1	3	8	14	17	18	15	13
19	10	38	- 2000	1	9	12	24	37	36	19	15
			0	1	8	11	23	36	35	19	15
			+ 2000	1	8	10	22	36	34	19	15

*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
19	24	30	0	19	95	0.03	0.05	0.10	0.15
19	24	30	0	38	155	0.03	0.05	0.05	0.15
19	24	30	6	19	125	0.04	0.06	0.09	0.21
19	24	30	6	38	190	0.05	0.08	0.07	0.19
19	24	30	10	19	140	0.05	0.08	0.10	0.25
19	24	30	10	38	205	0.06	0.09	0.06	0.21

*Note: For Pressure Drops at other velocities:

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