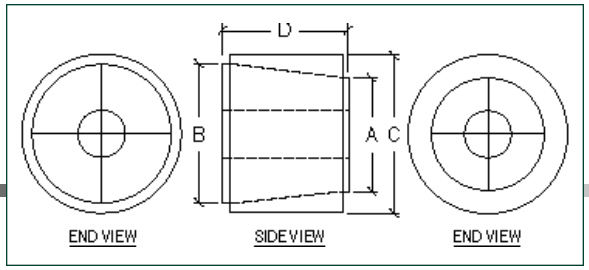
Vibro-Acoustics®

CERTIFIED PERFORMANCE DATA



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
84	0	84	- 2000	2	5	8	13	8	6	6	4
			0	2	5	8	12	8	6	6	4
			+ 2000	2	5	7	12	8	6	6	4
84	0	126	- 2000	3	8	11	20	16	10	9	9
			0	3	8	10	19	15	10	9	8
			+ 2000	3	8	9	19	15	10	10	8
84	20	84	- 2000	2	6	9	14	13	11	9	6
			0	2	5	8	13	12	11	9	6
			+ 2000	2	5	7	12	11	11	9	6
84	20	126	- 2000	5	9	11	21	20	15	13	9
			0	5	9	10	20	19	14	13	9
			+ 2000	4	9	10	20	19	14	13	9
84	26	84	- 2000	3	6	9	16	16	13	10	8
			0	3	5	9	16	15	13	10	8
			+ 2000	3	5	9	15	14	13	10	8
84	26	126	- 2000	6	11	14	22	23	18	16	11
			0	5	10	13	21	22	17	16	10
			+ 2000	5	10	13	21	22	17	17	10
84	30	84	- 2000	5	9	12	20	22	15	13	10
			0	4	8	11	19	22	15	13	9
			+ 2000	4	8	10	18	21	15	13	9
84	30	126	- 2000	6	13	16	25	25	19	17	11
			0	6	12	15	24	24	19	17	10
			+ 2000	6	12	15	23	24	19	17	10

*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
84	106	111	0	84	1820	0.03	0.05	0.03	0.13
84	106	111	0	126	2490	0.04	0.06	0.03	0.13
84	106	111	20	84	2130	0.03	0.05	0.04	0.15
84	106	111	20	126	2845	0.04	0.06	0.04	0.15
84	106	111	26	84	2210	0.04	0.06	0.05	0.17
84	106	111	26	126	2945	0.04	0.07	0.05	0.17
84	106	111	30	84	2270	0.04	0.06	0.06	0.18
84	106	111	30	126	3020	0.04	0.07	0.06	0.18

*Note: For Pressure Drops at other velocities:

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