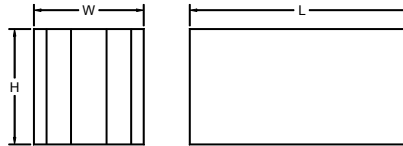


Availability

L: 3 feet and greater (sections if L>12ft)
W: 11.5-12.5, 23-25, 35-38, 46-50 inches
H: any length (72 inches practical limit)



5 ft Quick Rating = P19-L41-M82

See bottom of page for explanation.

Table 1: Insertion Loss

Length (in)	Face Velocity (fpm)	Insertion Loss (dB)							
		63Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz
36	- 1500	6	7	13	20	20	16	14	14
	0	4	7	14	20	20	17	14	14
	1500	4	8	14	19	18	15	14	14
60	- 1500	9	11	21	32	32	22	18	17
	0	8	11	22	32	32	21	17	16
	1500	7	12	22	29	29	21	18	17
84	- 1500	12	14	28	43	43	29	21	20
	0	11	14	30	44	44	27	20	19
	1500	9	15	30	40	40	26	22	20
120	-1500	16	19	36	57	57	37	27	23
	0	15	19	39	58	60	36	27	22
	1500	12	21	40	53	54	35	29	24

Note that ASTM inter-laboratory testing has shown insertion loss may vary as much as 6 dB in the 63hz band, and 3 dB for all other frequencies. Data in parenthesis () may be greater than shown due to limitations in laboratory equipment and/or facilities.

Table 2: Airflow Generated Sound Power Level

Face Velocity (fpm)	Airflow Generated Sound Power Level (dB)							
	63Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz
-1500	57	53	50	54	52	51	44	29
750	55	48	42	46	42	34	22	29
750	52	40	38	33	40	33	24	25
1500	57	51	46	44	49	48	44	29

Note that ASTM inter-laboratory testing has shown that generated noise may vary as much as 6 dB in the 63hz band, and 3 dB for all other frequencies. Data in parenthesis () may be less than shown due to limitations in laboratory equipment and/or facilities.

Table 3: Face Area Adjustment Factor

Silencer cross-sectional area (sq ft)								
1	2	4	8	16	32	64	128	
-6	-3	0	+3	+6	+9	+12	+15	

Weight = 5.9 lb/ft³

Look up silencer cross-sectional area in table. Add adjustment to each octave band airflow generated sound power level from Table 2.

Table 4: Pressure Loss

Length (in)	Loss Coefficient	Dynamic Pressure Loss (in wg)					
		Face Velocity (fpm)					
		250	500	750	1000	1500	1750
36	2.28	0.01	0.04	0.08	0.14	0.32	0.44
60	3.06	0.01	0.05	0.11	0.19	0.43	0.58
84	4.55	0.02	0.07	0.16	0.28	0.64	0.87
120	6.81	0.03	0.11	0.24	0.42	0.96	1.30

Note: Shaded regions represent a design condition that may have negative consequences for acoustically sensitive applications.

The Quick Rating is a designation used for comparing different silencer models to note differences in energy consumption (pressure loss), low frequency performance, and mid-frequency performance. The P rating is the pressure drop at 1000 fpm where PXX is the pressure drop in hundredths of an inch wg. The LYY rating is the total insertion loss, YY dB, of the 63, 125 and 250 Hz octave bands at 0 fpm. The MZZ rating is the total insertion loss, ZZ dB, of the 500, 1000 and 2000 Hz octave bands at 0 fpm. See the sheet titled "Quick Rating Guide" for further information.