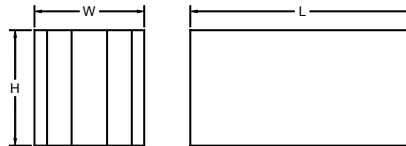


### Availability

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 = P12-L27-M43

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	-2000	7	10	11	16	15	13	9	4
	0	6	6	6	9	10	11	8	2
	2000	7	8	9	14	13	13	8	6
60	-2000	10	13	14	18	16	15	10	5
	0	7	8	7	12	12	14	9	3
	2000	9	10	12	16	15	16	10	7
84	-2000	13	17	17	22	19	18	12	6
	0	10	11	8	15	15	17	11	4
	2000	12	14	15	19	18	20	12	8
120	-2000	13	19	20	24	20	20	13	7
	0	12	14	9	17	17	19	12	4
	2000	12	19	18	21	20	24	14	9

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
-2000	53	62	55	51	54	58	53	37
-1000	(49)	(52)	(43)	42	39	42	42	35
1000	(52)	(46)	38	41	41	45	45	38
2000	53	51	48	50	57	62	58	41

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 = 7.2 lb/ft<sup>3</sup>

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)					
		500	1000	1500	1750	2000	3000
36	1.66	0.03	0.10	0.23	0.32	0.41	0.93
60	1.86	0.03	0.12	0.26	0.36	0.46	1.04
84	2.77	0.04	0.17	0.39	0.53	0.69	1.55
120	2.94	0.05	0.18	0.41	0.56	0.73	1.65

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 1000 fpm. The MZZ rating is the total insertion loss, ZZ dB, of the 500, 1000 and 2000 Hz octave bands at 1000 fpm. See the sheet titled "Quick Rating Guide" for further information.