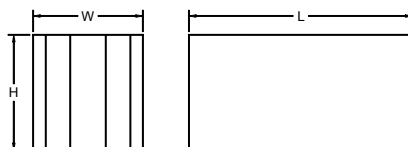


### Availability

L: 3 feet and greater (sections if L>12ft)  
W: 13-14, 26-28, 52-56 inches  
H: any length (72 inches practical limit)



5 ft Quick Rating = P29-L37-M89

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	-1250	3	9	13	20	20	16	11	10
	0	3	9	13	21	23	17	16	17
	1250	3	8	12	19	21	15	13	12
60	-1250	4	16	20	32	34	23	15	12
	0	5	16	20	34	38	24	21	21
	1250	5	14	18	30	35	23	18	16
84	-1250	5	22	27	35	40	30	19	15
	0	7	22	27	38	46	31	26	25
	1250	7	19	25	34	42	30	23	19
120	-1250	7	29	35	48	55	38	24	17
	0	9	29	36	52	(60)	42	34	29
	1250	9	26	33	48	58	39	30	22

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
-1250	59	57	53	53	53	54	46	36
-500	57	48	43	38	35	31	26	24
500	58	38	33	27	28	28	27	26
1250	60	52	43	42	45	46	40	34

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 = 5.6 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)					
		250	500	750	1000	1250	1500
36	3.34	0.01	0.05	0.12	0.21	0.33	0.47
60	4.73	0.02	0.07	0.17	0.29	0.46	0.66
84	5.79	0.02	0.09	0.20	0.36	0.56	0.81
120	7.13	0.03	0.11	0.25	0.44	0.69	1.00

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.