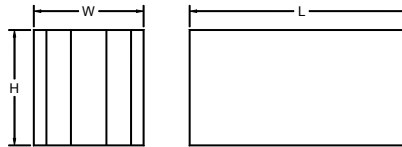


Availability

L: 3 feet and greater (sections if L>12ft)
W: 5.5-6.5, 11.5-12.5, 23-25, 35-38, 46-50 inches
H: any length (72 inches practical limit)



5 ft Quick Rating = P32-L43-M148

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	- 1000	7	11	20	28	37	35	27	18
	0	7	10	18	29	38	37	28	19
	1000	7	9	17	27	37	37	29	20
60	- 1000	9	15	26	42	51	48	37	22
	0	9	14	24	40	49	52	37	26
	1000	8	13	22	40	50	51	38	25
84	- 1000	11	17	29	44	51	52	48	30
	0	10	16	27	44	50	54	49	32
	1000	9	15	25	45	50	53	51	33
120	-1000	13	22	35	52	51	55	59	38
	0	12	19	32	53	53	56	(60)	43
	1000	11	18	30	53	52	56	58	43

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
-1000	46	41	50	50	57	55	48	42
-500	44	33	41	45	51	52	39	23
+500	34	29	29	29	30	27	24	22
+1000	45	43	38	35	37	39	35	33

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 = 7.9 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)					
		500	750	1000	1250	1500	2000
36	3.96	0.06	0.14	0.25	0.39	0.56	0.99
60	5.09	0.08	0.18	0.32	0.50	0.71	1.27
84	6.39	0.10	0.22	0.40	0.62	0.90	1.59
120	6.94	0.11	0.24	0.43	0.68	0.97	1.73

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.