## McGill AirSilence Llc

An enterprise of United McGill Corporation - Founded in 1951

## Availability

L: 3 feet and greater (sections if L>12ft)
W: 8.5-9.5, 17-19, 34-38 inches
H: any length (72 inches practical limit)

H | | |



## RSV-MV-L25

Rectangular, Straight, Medium Velocity Sounpak® Silencer with Vapor Barrier

5 ft Quick Rating = P07-L25-M60

See bottom of page for explanation.

**Table 1: Insertion Loss** 

Length	Face Velocity (fpm)	Insertion Loss (dB)								
(in)		63Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz	
	-2000	8	4	7	12	16	16	11	9	
36	0	6	4	6	11	15	13	13	9	
	2000	4	3	8	13	16	13	12	8	
	-2000	6	6	12	20	22	19	11	9	
60	0	6	7	13	18	23	17	17	15	
	2000	7	6	12	19	24	18	18	15	
	-2000	12	8	16	29	30	22	11	9	
84	0	8	8	17	26	33	20	18	17	
	2000	9	7	19	28	35	22	20	18	
	-2000	18	14	22	41	41	30	17	14	
120	0	14	12	23	34	41	26	24	23	
	2000	13	10	25	39	43	27	28	23	

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	Airflow Generated Sound Power Level (dB)										
Velocity (fpm)	63Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz			
-2000	58	52	58	56	59	60	55	47			
-1000	39	38	47	43	47	44	36	27			
1000	32	32	33	33	34	38	27	25			
2000	61	49	46	45	45	55	50	44			

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** 

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

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

Weight = 6.4 lb/ft<sup>3</sup>

**Table 4: Pressure Loss** 

1	Loss Coefficient	Dynamic Pressure Loss (in wg)							
Length (in)		Face Velocity (fpm)							
		500	1000	1500	2000	2500	3000		
36	1.08	0.02	0.07	0.15	0.27	0.42	0.61		
60	1.10	0.02	0.07	0.15	0.27	0.43	0.62		
84	1.30	0.02	0.08	0.18	0.32	0.51	0.73		
120	1.68	0.03	0.10	0.24	0.42	0.65	0.94		

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.