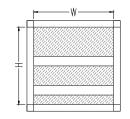
McGill AirSilence LLC

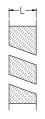
An enterprise of United McGill Corporation - Founded in 1951

Availability

L: 8"

W: (72 inch practical limit) may be banked H: (72 inch practical limit) may be banked





RLF-PV-L13

Rectangular, Louver, Fiber-Filled Plenum Velocity Silencer

Quick Rating = P120-L13-M40

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		
8	-1000	3	6	8	12	16	12	8	8		
	-500	1	4	7	12	15	14	12	10		
	0	1	4	7	12	15	13	10	10		
	500	1	4	7	11	15	13	10	10		
	1000	2	4	7	11	14	13	11	11		

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

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Face Velocity (fpm)	Airflow Generated Sound Power Level (dB)										
	63Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz			
-1000	76	73	67	61	59	61	58	52			
-500	65	57	47	44	44	40	33	(31)			
500	65	59	49	48	49	48	40	(33)			
1000	76	79	70	65	63	64	62	56			

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 =18.5 lb/ft³

Table 4: Pressure Loss

Length (in)	Loss Coefficient	Dynamic Pressure Loss (in wg)									
		Face Velocity (fpm)									
		250	500	750	1000	1250	1500				
8	19.21	0.07	0.30	0.67	1.20	1.87	2.69				

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 in. 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.