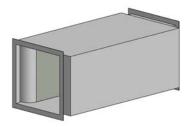
McGill AirSilence Llc

An enterprise of United McGill Corporation – Family owned and operated since 1951.

Availability

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



RWF-HV-L28

Rectangular, Straight, Fiber-Filled Wide Body, High-Velocity Sounpak[®] Silencer

5 ft Quick Rating = P03-L28-M39

See bottom of page for explanation

Table 1: Insertion Loss

Length (inches)	Face Velocity (fpm)	Insertion Loss (dB)								
		63Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz	
	-4000	(4)	10	17	21	12	5	3	3	
	-2000	5	9	16	20	12	4	2	1	
60	0	4	9	16	19	13	6	3	1	
	2000	4	8	15	18	14	7	5	3	
	4000	(3)	8	14	18	15	8	6	4	
120	-4000	(5)	15	(25)	(35)	20	8	5	4	
	-2000	(9)	15	26	38	21	7	2	3	
	0	(9)	15	25	36	22	9	5	4	
	2000	(7)	13	24	36	23	10	7	5	
	4000	(4)	13	(22)	(33)	25	11	8	6	

Note that ASTM inter-laboratory testing has shown insertion loss may vary as much as 6 dB in the 63 hz 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

Table 2. All now deficiated double I ower Level											
Face	Airflow Generated Sound Power Level (dB)										
Velocity (fpm)	63Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz			
-4000	75	70	66	66	67	70	71	66			
-2000	(58)	51	49	50	54	57	50	(41)			
2000	63	51	47	46	50	49	44	(35)			
4000	77	70	67	65	64	67	67	64			

Note that ASTM inter-laboratory testing has shown that generated noise may vary as much as 6 dB in the 63 hz 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 (square feet)									
1	2	4	8	16	32	64	128		
-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 = length x height +5.8 lb/ft³

Table 4: Pressure Loss

14010 11 11000410 2000										
Length (inches)	Loss Coefficient	Dynamic Pressure Loss (in wg)								
		Face Velocity (fpm)								
		500	1000	1500	2000	3000	4000			
60	0.79	0.01	0.05	0.11	0.20	0.44	0.79			
120	1.83	0.03	0.11	0.26	0.46	1.03	1.83			

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.