



# Round Sound Attenuators - Circular silencers

## Performance Data

### Dynamic Insertion Loss (DIL)

Inside Diameter (in.)	Length (in.)	Weight (lbs)	Face Velocity (FPM)	Pressure Drop (in. w.g.)	Octave Band Dynamic Insertion Loss (dB)								
					63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	
12	24	28	+4000	0.16	2	4	11	16	23	17	13	12	
			0	0	3	4	13	17	24	17	13	12	
			-4000	0.16	3	5	14	18	26	17	13	12	
	36	42	42	+4000	0.18	3	5	15	24	29	20	15	14
				0	0	4	6	16	25	31	20	15	14
				-4000	0.18	4	6	18	27	33	20	15	14
24	48	129	+4000	0.16	2	4	10	22	19	11	10	11	
			0	0	2	5	11	24	20	11	10	11	
			-4000	0.16	3	5	13	25	21	11	10	11	
	72	194	194	+4000	0.19	3	5	15	34	24	14	13	15
				0	0	4	6	17	36	25	14	13	15
				-4000	0.19	4	7	19	38	27	14	14	15
36	72	272	+4000	0.15	3	5	13	20	15	10	9	8	
			0	0	3	5	14	22	16	10	9	8	
			-4000	0.15	4	6	16	23	17	10	9	8	
	108	408	408	+4000	0.2	4	6	18	31	22	16	14	11
				0	0	4	7	20	32	23	16	14	11
				-4000	0.2	5	8	22	34	24	16	14	11

### Generated Noise(GN) @ 3 sq. ft. face area

Length (in.)	Face Velocity (fpm)	Octave Band Generated Noise (dB)							
		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
All Lengths	+4000	62	49	49	47	43	43	40	38
	0	30	25	20	15	10	10	10	10
	-4000	66	59	60	57	55	49	50	42

### Generated Noise Correction Factors\*

Face Area (sq. ft.)	1.5	3	6	12	24
dB	-3	0	+3	+6	+9

\* Generated Noise adjustment factors for silencers with face area other than 3 sq.ft. Add or subtract factor to all octave bands

#### Performance Notes:

1. Data tables are derived from values obtained in accordance with the latest version of ASTM E477.
2. "+" indicates performance data for forward flow (supply) applications.
3. "-" indicates performance data for reverse flow (return) applications.
4. Dynamic Insertion Loss is limited to 55 dB due to flanking.
5. For performance data specific to a configuration not cataloged, please use Price AIO Selection Software.
6. Outside Diameter (OD) = Inside Diameter (ID) + 8 in.

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