



## Niles Technical Bulletin

**To:** All Niles Dealers And Representatives  
**From:** The Technical Support Department  
**Date:** 4/11/05  
**Re:** Minimum Loudspeaker Enclosure Volumes

Whenever Niles® In-Wall or Ceiling Mount Loudspeakers are installed where an enclosure is required, a minimum internal volume should be maintained to ensure proper speaker performance. Each Loudspeaker model has its own volume requirements. The table below has been provided to assist in the design and construction of any enclosure you may need.

Speaker Type	Speaker Model	Cubic Feet	Cubic Inches	Height in Standard Wall 16" Stud spacing - 2x4	Height in Standard Wall 24" Stud spacing - 2x4	Height in Standard Wall 16" Stud spacing - 2x6
AT	CM5AT	0.40	691	13.6" Height	8.8" Height	8.7" Height
AT	AT5	0.40	691	13.6" Height	8.8" Height	8.7" Height
AT	CM6AT	0.45	778	15.3" Height	9.9" Height	9.8" Height
AT	AT6	0.45	778	15.3" Height	9.9" Height	9.8" Height
AT	CM8AT	1.00	1,728	34.0" Height	21.9" Height	21.7" Height
AT	AT8	1.00	1,728	34.0" Height	21.9" Height	21.7" Height
AT	DS6300AT	1.00	1,728	34.0" Height	21.9" Height	21.7" Height
AT	DS6500AT	1.00	1,728	34.0" Height	21.9" Height	21.7" Height
AT	AT8000	1.47	2,540	50.1" Height	32.3" Height	31.9" Height
AT	AT8500	1.47	2,540	50.1" Height	32.3" Height	31.9" Height
AT	AT8700	1.47	2,540	50.1" Height	32.3" Height	31.9" Height
CM	CM75	0.35	605	11.9" Height	7.7" Height	7.6" Height
CM	CM76	0.35	605	11.9" Height	7.7" Height	7.6" Height
CM	CM77	0.35	605	11.9" Height	7.7" Height	7.6" Height
CM	CM6	0.45	778	15.3" Height	9.9" Height	9.8" Height
DS	DS6.3	1.00	1,728	34.0" Height	21.9" Height	21.7" Height
DS	DS6.5	1.00	1,728	34.0" Height	21.9" Height	21.7" Height
DS	DS6.7	1.00	1,728	34.0" Height	21.9" Height	21.7" Height
HD	CM5HD	0.40	691	13.6" Height	8.8" Height	8.7" Height
HD	HD5	0.40	691	13.6" Height	8.8" Height	8.7" Height
HD	CM6HD	0.45	778	15.3" Height	9.9" Height	9.8" Height
HD	HD6	0.45	778	15.3" Height	9.9" Height	9.8" Height
HD	HD-CTR	0.86	1,486	29.3" Height	18.9" Height	18.6" Height
HD	HD-LRS	0.86	1,486	29.3" Height	18.9" Height	18.6" Height
HD	CM8HD	1.00	1,728	34.0" Height	21.9" Height	21.7" Height
HD	CM8SW	1.00	1,728	34.0" Height	21.9" Height	21.7" Height
HD	HD8	1.00	1,728	34.0" Height	21.9" Height	21.7" Height
HD	HD8.3	1.00	1,728	34.0" Height	21.9" Height	21.7" Height
HD	PSW8	1.00	1,728	34.0" Height	21.9" Height	21.7" Height
MP	CM5MP	0.40	691	13.6" Height	8.8" Height	8.7" Height
MP	MP5	0.40	691	13.6" Height	8.8" Height	8.7" Height
MP	CM6MP	0.45	778	15.3" Height	9.9" Height	9.8" Height
MP	MP6	0.45	778	15.3" Height	9.9" Height	9.8" Height
PR	CM5PR	0.40	691	13.6" Height	8.8" Height	8.7" Height
PR	PR5	0.40	691	13.6" Height	8.8" Height	8.7" Height
PR	CM6PR	0.45	778	15.3" Height	9.9" Height	9.8" Height
PR	PR6	0.45	778	15.3" Height	9.9" Height	9.8" Height
SI	CM6.1SI	0.48	821	16.2" Height	10.4" Height	10.3" Height
SI	CM6.3SI	0.48	821	16.2" Height	10.4" Height	10.3" Height
SI	CM6.5SI	0.48	821	16.2" Height	10.4" Height	10.3" Height
SI	CM8.5Si	1.00	1,728	34.0" Height	21.9" Height	21.7" Height

Should you have any questions, please feel free to contact Niles Technical Support at 1-800-289-4434 between the hours of 8am and 7pm Eastern Time, Monday through Friday.