

Speakers a Box Within a Box

(Designing A Sound System Can Be A Pandora Event.)

How A Room Changes The Performance Of A Loud Speaker

by Tim Johnson

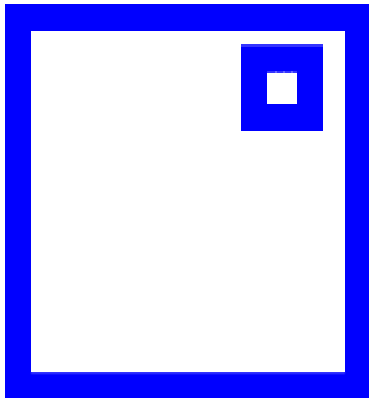
Q: I listened to a speaker in a music store and it sounded great. When I put it in the room, it sounded completely different. Why?

A: A very basic loudspeaker is made up of a raw speaker and a box. The box is a major component of a loudspeaker. If you were to remove the box, the sound, as well as efficiency of the speaker would change drastically. Changing the size of the box will also have a radical effect on the sound of the loudspeaker. This is also true with the type and amount of "stuff" that is placed in the box.

Now lets look at the bigger picture. A loudspeaker in a room has two boxes. The first is the box that the speaker component is mounted in and the second is the box (room) that the loudspeaker is placed in. Again, changing the box (room) size and the amount of "stuff" that is in it will drastically change the tone and efficiency of the speaker.

All of that said, the simple answer is . . . You have changed one of the major components of your loud speaker. That is the speakers' external box or your room.

By teaming years of experience and education with the latest software technology, Integrated Audio Systems can accurately choose the best speakers for your application. As a matter of fact, we will guarantee the results.



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