
Subject: Re: Okay, let me try...

Posted by [mollecon](#) on Tue, 12 Aug 2003 14:48:31 GMT

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Quote:"...speaker that I ever used is completely different with the hi-fi, I really want to know why."Well, the typical 'hifi' speaker & the typical instrument amp speaker are different for various reasons. An instrument speaker have to be durable & able to withstand hard use & at the same time be able to play loud enough, at least to compete with acoustical instruments (Which in themselves can be surprisingly loud!). So usually, instument speakers are pretty large & efficient, with the drivers having proberities to meet the demands - furthermore instrument speakers (& amps) often have a certain 'sound' that acts as a prolonging of the sound of the instrument itself. The typical 'hifi' speakers are much smaller & at least try to be neutral in their sound, + be able to deliver bass from small boxes. And so, they are also much less efficient than most instrument speakers. There's a lot more to it than this, but this is the short version. :-)

A typical driver (speaker unit) for instrument use will be quite large & have a light diaphragm & a stiff suspension. A typical driver (for bass/midrange) for hifi is smaller & have a heavy diaphragm & a soft suspension. I should add that the people you meet in this forum & the High efficiency forum to a certain extend contradicts the above! They often use professional drivers & correspondingly large boxes in order to achieve a more dynamic sound, &/or be able to reach reasonable loudness levels with small tube amps. They still try to achieve a neutral sound, though I do think it's fair to say that they probably emphasize other aspects of the sound than your average audiophile...Quote:"...lately I know that it because of the delay."Quote:"....and also eliminate all the problem in the gig."Uhhh - as far as I can see the problem simply is that the sound from your rig mixes with the sound from the PA when you crank it up - but because of the distances in question, the sound from yours arrives a bit later & screws up the sound heard by the soundman (& audience!). It's a bit hard to see how that problem can be solved - I mean, regardless of the type of rig you use the problem will occur as soon as you turn the volume up loud, right? & that's the same also if we only talk bottom end. It's true that the idea of a stacked set comprising one 4X10 on top of a 1X15, covering by & large the same frequencies looks terrible from a hifi point of view. But it might well work fine as an instrument speaker! You cannot compare the two uses totally, you know. I really think you should go into the High Efficiency Forum & post a message called "Bass guitar speakers - help" or something. As I mentioned, several of the posters there are bass guitarists AND very knowing about the technical aspects of speakers, too. Be sure to make it as clear as possible what your problems are, also mention what gear you like/dislike & what you want a solution to do - they are a helpfull bunch, & the more specific you are, the better help they can give! The High Efficiency Forum is a part of this site & can be accessed from the main page - there's also a link to it here:

HE-forum