
Subject: Re: 4PI Cabinet plans / question

Posted by [Wayne Parham](#) on Sat, 22 Dec 2012 15:46:48 GMT

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thatsnasty wrote on Sat, 22 December 2012 02:39I have my 4Pi's built and they sound fantastic! The center is sealed as I was talking about above, but I had a question.

I'm currently crossing over the center at 80hz and the L/R at 50hz. I originally had the center at 50hz as well, but during more bass heavy content, I saw it was seeing some pretty decent excursion.

I was wondering if you had an idea how much power the 2226H can take with a 50hz cross in a sealed box?

My receiver (pioneer vsx-1018) will put out around 100-150w at max so just making sure I don't blow the thing up, lol.

That's one of the main reasons I prefer vented boxes. They reduce excursion while at the same time adding extension. And in the modal region, the changing phase of a Helmholtz resonator is unimportant, so it's definitely better to run vented mains.

Still, the center channel looks nicer sealed, and I think your solution is a good one. They just can't take quite as much power, but they can be high passed a little higher for protection, as you've done. When high-passing the mains, do it as low as you can to increase overlap/blending so the room modes are mitigated as much as possible with multiple sound sources. The high-pass numbers you've chosen are just about perfect.

Here are some response and excursion charts, for comparison:

File Attachments

- 1) [2226H_vented_response.gif](#), downloaded 3348 times
 - 2) [2226H_sealed_response.gif](#), downloaded 3282 times
 - 3) [2226H_vented_excursion.gif](#), downloaded 3023 times
 - 4) [2226H_sealed_excursion.gif](#), downloaded 3080 times
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