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Subject: Re: Smaller 3 pi construction?

Posted by [Wayne Parham](#) on Fri, 05 Mar 2021 14:34:37 GMT

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Of course, a loudspeaker like you've described could be designed and I would expect it to be great, if done properly.

But don't modify the cabinet dimensions without acoustic testing, and specifically pay attention to the lower midrange. That's what is most problematic in cabinet design for a large-format two-way loudspeaker.

Also, bear in mind that another one of the things that will change is the baffle step region. As the baffle shrinks, the baffle step happens higher in frequency. The three Pi and four Pi models are large enough that baffle step is around the frequency where the flanking subs rolloff. So they provide extension, SBIR and higher-frequency room mode mitigation and baffle step correction.

More information about these issues and others can be found in the Pi Speakers FAQ.

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