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Subject: 4 Pi Design Questions

Posted by [Nichol1997](#) on Mon, 18 Jan 2010 04:09:58 GMT

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Wayne,

I have been modeling the bass response of your 4 Pi design using the JBL 2226H drivers in WinISD. I have calculated the net volume of the enclosure to be approximately 2.74 cubic feet. Given your port dimensions and the net volume of the enclosure, the tuning frequency appears to be 27 Hertz.

I would like to alter the response curve by making a slightly larger enclosure (3.6 cu ft) and raising the tuning frequency to 40 Hertz. This can be achieved by increasing the height of the enclosure by 7 inches. I would like to keep the port on the front baffle but move it to the bottom of the enclosure. From your previous posts it seems that standing waves may become an issue, is this correct?

Do I also need to worry about midrange frequencies escaping from the port and canceling with the front-wave of the speaker?