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Subject: Displacement by Horn and Driver?  
Posted by [GarMan](#) on Fri, 25 Jun 2004 19:00:10 GMT  
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Hi Wayne, Wondering if you've done any rough calculations in terms of how much volume is displaced by the midrange horn and Alpha10 driver. For example, if I insert the horn and driver into a 6 cubic ft box, how much volume would I be left with? BTW, I noticed that you specify 5.5 ft<sup>3</sup> for the 8PI. Is there a reason why you increased the volume by a square foot over the 2PI Towers? thanks, Gar.

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Subject: Re: Displacement by Horn and Driver?  
Posted by [Wayne Parham](#) on Fri, 25 Jun 2004 19:49:22 GMT  
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There's a handy little program called "volume.exe" in the PiAlign distribution file that calculates volumes of various primitive shapes. You can approximate an object using a construction of solid primitive shapes. For example, a loudspeaker cone might be approximated using a cone for the basket and a cylinder for the magnet.

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Subject: Re: Displacement by Horn and Driver?  
Posted by [GarMan](#) on Fri, 25 Jun 2004 22:15:41 GMT  
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Wayne, does the 5.5 ft<sup>3</sup> you specified for the 8PI include or exclude the volume displaced by the horn and driver?

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Subject: Re: Displacement by Horn and Driver?  
Posted by [Wayne Parham](#) on Sat, 26 Jun 2004 05:39:23 GMT  
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Hi Gar, The volume displaced by the midhorn and driver is subtracted from inner volume. I used the CSG technique I described earlier for calculating offsets. Wayne