
Subject: 2Pi Tower is "sneaky big"! How will it model with.....

Posted by [BillEpstein](#) on Fri, 18 Mar 2005 04:09:46 GMT

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Got my 2Pi upgrade kits today. They're for an experiment Speakerman wants me to try: a pair of 12" Altec/University from his archives with the Vifa in a 4.5 cu ft sealed box. We figure if it has to be ported then it's just a matter of drilling another hole as there's no depth to the Tower port. I was amazed to find the O.S. dimensions of the Tower yield 5.5 cu ft! But by the time the bracing, Hardi-Backer a la Bob Brines and drivers are installed it should be closer to 4.5. Of course it has to stop raining on my alfresco workshop so I can build.

Subject: Re: 2Pi Tower is "sneaky big"! How will it model with.....

Posted by [Wayne Parham](#) on Fri, 18 Mar 2005 15:35:31 GMT

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Sounds interesting. Do you have T/S specs?

Subject: T/S for 12" driver

Posted by [spkrman57](#) on Sun, 20 Mar 2005 13:35:42 GMT

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Wayne and Bill, My "woofer tester" is currently not running on the pc, but I had measured these back some time when everything worked with my woofer tester, and found out they are identical to the Altec 414 specs. From my memory: $f_s = 30\text{hz}$, $q_{ts} = .35$ $\text{eff} = 96\text{db}$ V_{as} = fuzzy memory says 10 to 20 cubic ft. Sorry I can't remember more than that. I do remember these measured same as Altec 414's as I measured the 414's and the (Altec/Utah???)'s at the same time and were identical. The 414's of course had cast frames and alnico magnets, the clones are (40 - 60 oz/ceramic) magnets, stamped frames. I don't frequent the Altec website much anymore so unsure, I have become a JBL junkie!Ron

Subject: Re: T/S for 12" driver

Posted by [Wayne Parham](#) on Sun, 20 Mar 2005 15:33:45 GMT

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The Altec 416 has very high V_{as} and so needs a very large box, between 6 and 18 cubic feet tuned to 30Hz. PiAlign suggests 8.5ft³ for the 416. The Altec 414 should be used in much smaller boxes, like 0.5ft³ to 2.0ft³ tuned to 60Hz. PiAlign suggests 1.5ft³ for the Altec 414.

Subject: Re: T/S for 12" driver

Posted by [spkrman57](#) on Sun, 20 Mar 2005 16:04:56 GMT

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Thanks Wayne, Bill's cabinet is larger than that, but is also sealed(at least so far). It will be interesting to see the results Bill comes up with. Ron
